

A+V Rubidium Series 1

RUB installation software is available free of charge on our web site (www.alpermann-velte.com)

* All Rub modules must be used in conjunction with an applicable housing and power supply.

A+V RUB1 Module Housings

11001000	S1	Single module 19"/1RU housing
11002000	T1	Single module tabletop housing
11003000	H1	Module housing 19"/1RU (4 modules)
11004000	D1	Module housing 19"/1RU (2 modules), int. display and power supply

A+V RUB1 Power Supply Modules

11011000	PE	External power supply only for Rub S1 and T1
11012000	PS	Power supply module (60W)
11013000	PQ	Power supply module (60W) OLED-display

A+V RUB1 Master Time Code (EBU/SMPTE) Generator*

11020000	GT	Master generator
11020010	GT-V	VITC generator
11020020	GT-L	LTC reference input
11020030	GT-I	IRIG-B reference input
11020040	GT-A	Automation-system interface
11020050	GT-M	Clock-driver for analog clocks
11020500	GL	LTC-, MTD generator
11020510	GL-M	Clock-driver for analog clocks

A+V RUB1 Master IRIG-B Generator*

11021000	GI	Master IRIG-B generator
11021010	GI-L	LTC reference input
11021020	GI-I	IRIG-B reference input

A+V RUB1 Change-over units*

11030000	SL	LTC / RS 485 change-over unit and monitoring module
11031000	SV	VITC change-over unit and monitoring module
11032000	SR	GPS 10 MHz reference signal change-over unit and monitoring module
11033000	SI	IRIG-B change-over unit and monitoring module

A+V RUB1 Distribution Modules*

11040000	VD	Distribution module 1:4 LTC, RS485, RS422 and analog clock signal outputs
11041000	VI	Distribution module 1:6 LTC(EBU/SMPTE) or IRIG-B with output monitoring and a redundant change-over switcher
11042000	VL	Distribution module 2:4 LTC(EBU/SMPTE) (MTD demultiplexer)
11043000	VM	Distribution module 1:6 10MHz continuous wave with output monitoring and a redundant change-over switcher
11044000	VP	Distribution module 1:6 PPS signals, TTL level output monitoring and a redundant change-over switcher

A+V RUB1 Video Inserters/ Data Converter Modules*

11050000	DT	SDI digital video data processor and inserter module
11050010	DT-B	Video bypass relay
11050020	DT-S	Sony 9P protocol converter
11050030	DT-O	Configurable offset
11050040	DT-P	Converter biphase/CTL to LTC
11050500	DV	SDI digital video inserter module
11050510	DV-B	Video bypass relay

11051000	DA	SDI digital video inserter and ancillary data processor module
11051500	DY	SDI digital video ancillary inserter module
11052500	DI	SDI digital video data inserter
11052510	DI-D	Inserter for date/time
11052520	DI-T	Internal clock module (battery buffered) - available with Opt. D
11052530	DI-G	GPS interface (GPS receiver not included) - available with Opt. D
11052540	DI-W	WSS data insertion - available with Opt. V
11052550	DI-V	VPS data insertion - available with Opt. W
11052560	DI-I	4 configurable GPI's
11053000	AT	CVBS video inserter and data processor module
11053010	AT-B	Video bypass relay
11053020	AT-S	Sony 9P protocol converter
11053030	AT-O	Configurable offset
11053040	AT-P	Converter biphase/CTL to LTC
11053550	AV	CVBS video inserter module
11053500	AV-B	Video bypass relay
11054000	AI	CVBS data inserter
11054010	AI-D	Inserter for date/time
11054020	AI-T	Internal clock module (battery buffered) - available with Opt. D
11054030	AI-G	GPS interface (GPS receiver not included) - available with Opt. D
11054040	AI-W	WSS data insertion - available with Opt. V
11054050	AI-V	VPS data insertion - available with Opt. W
11054060	AI-I	4 configurable GPI's
11054500	HT	HD/ SDI digital video data processor and inserter module
11054510	HT-B	Video bypass relay
11054520	HT-O	Configurable offset
11054530	HT-P	Converter biphase/CTL to LTC
11055000	HV	HD/ SDI digital video inserter module
11055010	HV-B	Video bypass relay
11055500	HI	HD/SDI digital video data inserter
11055510	HI-D	Inserter for date/time
11055520	HI-T	Internal clock module (battery buffered) - available with Opt. D
11055530	HI-G	GPS interface (GPS receiver not included) - available with Opt. D

A+V RUB1 Interface Modules*

11060000	IE	Ethernet interface module (100baseT)
11060010	IE-S	SNMP functionality
11060020	IE-N	NTP Time Server

A+V RUB1 GPS Modules*

11070000	G10	GPS receiver with 10 MHz out
11070500	G10 HQ	GPS receiver with 10 MHz out HQ oscillator
11070010	ANT	GPS antenna pole mount, 20 m cable
11070020	ANTLP	GPS antenna flush mount, 20 m cable
11070030	G10-P	Surge voltage protector for GPS antenna
11070040	GOAL	Optical antenna link (up to 1000 m)
11071000	G16	External module, GPS receiver and antenna
11071010	G16-E	RJ45 extension kit 30 m
11071020	G16-M	Magnetic mount kit
11071500	G17	External module, GPS receiver and antenna
11072000	C51	DCF-receiver

A+V RUB1 Display Modules*

11013000	PQ	Power supply module (60W) with front mount "OLED" three line display, SNMP functionality
11080000	LQ	Display module with front mount "OLED" three line display

13053550	AV	CVBS video inserter module
13053500	AV-B	Video bypass relay
13054500	HT	HD/ SDI digital video data processor and inserter module
13054510	HT-B	Video bypass relay
13054520	HT-O	Configurable offset
13054530	HT-P	Converter biphas/CTL to LTC
13055000	HV	HD/ SDI digital video inserter module
13055010	HV-B	Video bypass relay

A+V RUB3 Interface Modules*

13060000	IE	Ethernet interface module (100baseT)
13060010	IE-S	SNMP functionality
13060020	IE-N	NTP Time Server

A+V RUB3 GPS Modules*

13070000	G10	GPS receiver with 10 MHz out
13070500	G10 HQ	GPS receiver with 10 MHz out HQ oscillator
13070010	ANT	GPS antenna pole mount, 20 m cable
13070020	ANTLP	GPS antenna flush mount, 20 m cable
13070030	G10-P	Surge voltage protector for GPS antenna
13070040	GOAL	Optical antenna link (up to 1000 m)
13071000	G16	External module, GPS receiver and antenna
13071010	G16-E	RJ45 extension kit 30 m
13071020	G16-M	Magnetic mount kit
13071500	G17	External module, GPS receiver and antenna
13072000	C51	DCF-receiver with antenna and 20 m cable

A+V MTD Control Units

14100500	TCU	Time control unit, tabletop housing
14100510	TCU-EP	external power supply
14101000	TCU19	Time control unit, table or rack mountable
14100510	TCU-EP	external power supply
14101500	TCU H1	Time control unit, 19"/1 RU
14100510	TCU-EP	external power supply
14101511	TCU DR	second display, 14 mm red, for TCU H1
14101512	TCU DG	second display, 14 mm green, for TCU H1
14101513	TCU DY	second display, 14 mm yellow, for TCU H1
14101501	BESR	Stopwatch with 6 red LED digits, 15mm and 4 keys
14101502	BESG	Stopwatch with 6 green LED digits, 15mm and 4 keys
14101503	BESY	Stopwatch with 6 yellow LED digits, 15mm and 4 keys
14102001	BDD15R	Controlling double display 15mm, 6 red LED digits, CP connector
14102002	BDD15G	Controlling double display 15mm, 6 green LED digits, CP connector
14102003	BDD15Y	Controlling double display 15mm, 6 yellow LED digits, CP connector
14102010	BDD15-CP	20 external keys in 1/2 19"/1RU housing
14102501	BD256R	Controlling display 25mm, 6 red LED digits, with BT connector
14102502	BD256G	Controlling display 25mm, 6 green LED digits, with BT connector
14102503	BD256Y	Controlling display 25mm, 6 yellow LED digits, with BT connector
14102510	BD256-BT	4 external keys START-STOP-HOLD-RESET
14103001	BD257R	Controlling display 25mm, 7 red LED digits, with CP connector
14103002	BD257G	Controlling display 25mm, 7 green LED digits, with CP connector
14103003	BD257Y	Controlling display 25mm, 7 yellow LED digits, with CP connector
14103010	BD257-CP	20 external keys in 1/2 19"/1RU housing
14103501	BD566R	Controlling display 56mm, 6 red LED digits, with BT connector
14103502	BD566G	Controlling display 56mm, 6 green LED digits, with BT connector
14103503	BD566Y	Controlling display 56mm, 6 yellow LED digits, with BT connector
14103510	BD566-BT	4 external keys START-STOP-HOLD-RESET
14104001	BD567R	Controlling display 56mm, 7 red LED digits, with CP connector
14104002	BD567G	Controlling display 56mm, 7 green LED digits, with CP connector
14104003	BD567Y	Controlling display 56mm, 7 yellow LED digits, with CP connector
14104010	BD567-CP	20 external keys in 1/2 19"/1RU housing

A+V MTD Displays

14084501	DD15R	MTD double display 15mm, red LED`s (1 RU/ 19")
14084502	DD15G	MTD double display 15mm, green LED`s (1 RU/ 19")
14084503	DD15Y	MTD double display 15mm, yellow LED`s (1 RU/ 19")
14080010	MB28	1/2-19" mounting bracket
14085001	D25R	MTD display 25mm, 6 digits, red LED`s (1 RU/ 19")
14085002	D25G	MTD display 25mm, 6 digits, green LED`s (1 RU/ 19")
14085003	D25Y	MTD display 25mm, 6 digits, yellow LED`s (1 RU/ 19")
14080020	MB14	1/2-19" mounting bracket
14085501	D56R	MTD display 56mm, 6 digits, red LED`s (2 RU/ 19")
14085502	D56G	MTD display 56mm, 6 digits, green LED`s (2 RU/ 19")
14085503	D56Y	MTD display 56mm, 6 digits, yellow LED`s (2 RU/ 19")
14085510	D56-S	Integrated LED seconds ring for D56
14086001	D126R	MTD display 126mm, 6 digits, red LED`s
14086002	D126G	MTD display 126mm, 6 digits, green LED`s
14086003	D126Y	MTD display 126mm, 6 digits, yellow LED`s

14086501	DSR230R	MTD Display with LED seconds ring, red LED's 230 mm square
14086502	DSR230G	MTD Display with LED seconds ring, green LED's 230 mm square
14086503	DSR230Y	MTD Display with LED seconds ring, yellow LED's 230 mm square
14086511	DSR230-D	Appended display 25mm for DSR 230, 6 digits, red LED`s
14086512	DSR230-D	Appended display 25mm for DSR 230, 6 digits, green LED`s
14086513	DSR230-D	Appended display 25mm for DSR 230, 6 digits, yellow LED`s
14087001	DSR300R	MTD Display with LED seconds ring, red LED's 300 mm square
14087002	DSR300G	MTD Display with LED seconds ring, green LED's 300 mm square
14087003	DSR300Y	MTD Display with LED seconds ring, yellow LED's 300 mm square
14087011	DSR300-D	Appended display 25mm for DSR 300, 6 digits, red LED`s
14087012	DSR300-D	Appended display 25mm for DSR 300, 6 digits, green LED`s
14087013	DSR300-D	Appended display 25mm for DSR 300, 6 digits, yellow LED`s

A+V Time Code Displays

14087501	TCD25R	Universal Time Code display with Red LED's 25mm height
14087502	TCD25G	Universal Time Code display with Green LED's 25mm height
14087503	TCD25Y	Universal Time Code display with Yellow LED's 25mm height
14087510	TCD25-R	LTC reader for TCD 25
14087520	TCD25-V	VITC reader for TCD 25
14087530	TCD25-4	RS-422 data interface
14080020	MB14	1/2-19" mounting bracket
14088001	TCD56R	Universal Time Code display with Red LED's 56mm height
14088002	TCD56G	Universal Time Code display with Green LED's 56mm height
14088003	TCD56Y	Universal Time Code display with Yellow LED's 56mm height
14088010	TCD56-R	LTC reader for TCD 56
14088020	TCD56-V	VITC reader for TCD 56

A+V Time Code Readers for PC's

15110500	PCLL	PCI card with a LTC reader
15111000	PCLLV	PCI card with a VITC and LTC reader
15111500	PCLD	PCI card with a DVITC and LTC reader
15112000	PCLHD	PCI card with a ATC/HANC, DVITC and LTC reader
16901010	TC60RLV2	LTC and VITC reader box, RS 232
16901020	TC60RLV4	LTC and VITC reader box, RS 422

A+V Time Code Converters and Inserters

16902000	TCI70	Universal data and Time Code converter interface
16902010	TCI70-V	TC video inserter, VITC generator, VITC reader
16902020	TCI70-2	RS-232 data interface
16902030	TCI70-4	RS-422 data interface
16902040	TCI70-R	LTC high-speed reader
16902050	TCI70-G	LTC generator
16902060	TCI70-T	Internal clock module (battery buffered)
16902070	TCI70-D	Display LED red, 12mm, 8 digits
16902080	F19	19" front panel for 4 TCI 70 units

A+V Time Synchronization of PC

15110000	PCITS	PCI LTC reader card with windows software for real time synchronisation
16900510	TC60CLS2	LTC reader box for real time synchronisation of a PC, RS 232 Interface
16900520	TC60CLS4	LTC reader box for real time synchronisation of a PC, RS 422 Interface

A+V MTD Studioclocks

94330001	SC303L	300 mm square, AM/PM, back light, LTC/MTD-interface, display-interface
94330002	SC303E	300 mm square, AM/PM, back light, ethernet-interface, display-interface
94330005	SC304L	300 mm square, back light, LTC/MTD-interface, display-interface
94330006	SC304E	300 mm square, back light, ethernet-interface, display-interface
94330011	SC305L	300 mm square, LTC/MTD-interface, display-interface
94330012	SC305E	300 mm square, ethernet-interface, display-interface
94331001	SC306L	300 mm round, white face, black bars, LTC/MTD-interface
94331002	SC306E	300 mm round, white face, black bars, ethernet-interface

A+V MTD Clocks

32505100	300 mm round clock, silver bars black face, white case
32505101	300 mm round clock, silver bars black face, black case
32505102	300 mm round clock, silver bars black face, yellow case
32505103	300 mm round clock, silver bars black face, red case
32505104	300 mm round clock, silver bars black face, blue case
32505105	300 mm round clock, silver bars black face, white aluminium case
32505106	300 mm round clock, silver bars black face, gun metal case
32505113	300 mm round clock, silver bars black face, stainless steel case
32525100	300 mm round clock, black bars silver face, white case
32525101	300 mm round clock, black bars silver face, black case
32525102	300 mm round clock, black bars silver face, yellow case
32525103	300 mm round clock, black bars silver face, red case
32525104	300 mm round clock, black bars silver face, blue case
32525105	300 mm round clock, black bars silver face, white aluminium case
32525106	300 mm round clock, black bars silver face, gun metal case
32525113	300 mm round clock, black bars silver face, stainless steel case
42605100	400 mm round clock, elevated bars, black face, white case
42605101	400 mm round clock, elevated bars, black face, black case
42605102	400 mm round clock, elevated bars, black face, yellow case
42605103	400 mm round clock, elevated bars, black face, red case
42605104	400 mm round clock, elevated bars, black face, blue case
42605105	400 mm round clock, elevated bars, black face, white aluminium case
42605106	400 mm round clock, elevated bars, black face, gun metal case
42605114	400 mm round clock, elevated bars, black face, stainless steel case
42625100	400 mm round clock, elevated bars, silver face, white case
42625101	400 mm round clock, elevated bars, silver face, black case
42625102	400 mm round clock, elevated bars, silver face, yellow case
42625103	400 mm round clock, elevated bars, silver face, red case
42625104	400 mm round clock, elevated bars, silver face, blue case
42625105	400 mm round clock, elevated bars, silver face, white aluminium case
42625106	400 mm round clock, elevated bars, silver face, gun metal case
42625114	400 mm round clock, elevated bars, silver face, stainless steel case
32715100	300 mm round clock, black Arabic numerals, white face, white case
32715101	300 mm round clock, black Arabic numerals, white face, black case
32715102	300 mm round clock, black Arabic numerals, white face, yellow case
32715103	300 mm round clock, black Arabic numerals, white face, red case
32715104	300 mm round clock, black Arabic numerals, white face, blue case
32715105	300 mm round clock, black Arabic numerals, white face, white alu case
32715106	300 mm round clock, black Arabic numerals, white face, gun metal case
32715113	300 mm round clock, black Arabic numerals, white face, stainless steel case
32715158	Three-point mounting fixture

22815100	200 mm round clock, black Arabic numerals, white face, white case
22815101	200 mm round clock, black Arabic numerals, white face, black case
22815102	200 mm round clock, black Arabic numerals, white face, yellow case
22815103	200 mm round clock, black Arabic numerals, white face, red case
22815104	200 mm round clock, black Arabic numerals, white face, blue case
22815105	200 mm round clock, black Arabic numerals, white face, white alu case
22815106	200 mm round clock, black Arabic numerals, white face, gun metal case
22815112	200 mm round clock, black Arabic numerals, white face, stainless steel case
22815149	Low reflectivity front glass
22815158	Three-point mounting fixture
32815100	300 mm round clock, black Arabic numerals, white face, white case
32815101	300 mm round clock, black Arabic numerals, white face, black case
32815102	300 mm round clock, black Arabic numerals, white face, yellow case
32815103	300 mm round clock, black Arabic numerals, white face, red case
32815104	300 mm round clock, black Arabic numerals, white face, blue case
32815105	300 mm round clock, black Arabic numerals, white face, white alu case
32815106	300 mm round clock, black Arabic numerals, white face, gun metal case
32815113	300 mm round clock, black Arabic numerals, white face, stainless steel case
32815149	Low reflectivity front glass
32815158	Three-point mounting fixture
42815100	400 mm round clock, black Arabic numerals, white face, white case
42815101	400 mm round clock, black Arabic numerals, white face, black case
42815102	400 mm round clock, black Arabic numerals, white face, yellow case
42815103	400 mm round clock, black Arabic numerals, white face, red case
42815104	400 mm round clock, black Arabic numerals, white face, blue case
42815105	400 mm round clock, black Arabic numerals, white face, white alu case
42815106	400 mm round clock, black Arabic numerals, white face, gun metal case
42815114	400 mm round clock, black Arabic numerals, white face, stainless steel case
42815149	Low reflectivity front glass
42815158	Three-point mounting fixture
22825100	200 mm round clock, black bars, white face, white case
22825101	200 mm round clock, black bars, white face, black case
22825102	200 mm round clock, black bars, white face, yellow case
22825103	200 mm round clock, black bars, white face, red case
22825104	200 mm round clock, black bars, white face, blue case
22825105	200 mm round clock, black bars, white face, white aluminium case
22825106	200 mm round clock, black bars, white face, gun metal case
22825112	200 mm round clock, black bars, white face, stainless steel case
22825149	Low reflectivity front glass
22825158	Three-point mounting fixture
32825100	300 mm round clock, black bars, white face, white case
32825101	300 mm round clock, black bars, white face, black case
32825102	300 mm round clock, black bars, white face, yellow case
32825103	300 mm round clock, black bars, white face, red case
32825104	300 mm round clock, black bars, white face, blue case
32825105	300 mm round clock, black bars, white face, white aluminium case
32825106	300 mm round clock, black bars, white face, gun metal case
32825113	300 mm round clock, black bars, white face, stainless steel case
32825149	Low reflectivity front glass
32825158	Three-point mounting fixture

42825100	400 mm round clock, black bars, white face, white case
42825101	400 mm round clock, black bars, white face, black case
42825102	400 mm round clock, black bars, white face, yellow case
42825103	400 mm round clock, black bars, white face, red case
42825104	400 mm round clock, black bars, white face, blue case
42825105	400 mm round clock, black bars, white face, white aluminium case
42825106	400 mm round clock, black bars, white face, gun metal case
42825114	400 mm round clock, black bars, white face, stainless steel case
42825149	Low reflectivity front glass
42825158	Three-point mounting fixture
22835100	200 mm round clock, black bars, white face, white case
22835101	200 mm round clock, black bars, white face, black case
22835102	200 mm round clock, black bars, white face, yellow case
22835103	200 mm round clock, black bars, white face, red case
22835104	200 mm round clock, black bars, white face, blue case
22835105	200 mm round clock, black bars, white face, white aluminium case
22835106	200 mm round clock, black bars, white face, gun metal case
22835112	200 mm round clock, black bars, white face, stainless steel case
22835149	Low reflectivity front glass
22835158	Three-point mounting fixture
32835100	300 mm round clock, black bars, white face, white case
32835101	300 mm round clock, black bars, white face, black case
32835102	300 mm round clock, black bars, white face, yellow case
32835103	300 mm round clock, black bars, white face, red case
32835104	300 mm round clock, black bars, white face, blue case
32835105	300 mm round clock, black bars, white face, white aluminium case
32835106	300 mm round clock, black bars, white face, gun metal case
32835113	300 mm round clock, black bars, white face, stainless steel case
32835149	Low reflectivity front glass
32835158	Three-point mounting fixture
42835100	400 mm round clock, black bars, white face, white case
42835101	400 mm round clock, black bars, white face, black case
42835102	400 mm round clock, black bars, white face, yellow case
42835103	400 mm round clock, black bars, white face, red case
42835104	400 mm round clock, black bars, white face, blue case
42835105	400 mm round clock, black bars, white face, white aluminium case
42835106	400 mm round clock, black bars, white face, gun metal case
42835114	400 mm round clock, black bars, white face, stainless steel case
42835149	Low reflectivity front glass
42835158	Three-point mounting fixture
32915105	300 mm round clock, black Arabic numerals, silver face, white alu case
32915106	300 mm round clock, black Arabic numerals, silver face, gun metal case
32915113	300 mm round clock, black Arabic numerals, silver face, stainless steel case
32915158	Three-point mounting fixture
42915105	400 mm round clock, black Arabic numerals, silver face, white alu case
42915106	400 mm round clock, black Arabic numerals, silver face, gun metal case
42915114	400 mm round clock, black Arabic numerals, silver face, stainless steel case
42915158	Three-point mounting fixture
32935105	300 mm round clock, black bars, silver face, white aluminium case
32935106	300 mm round clock, black bars, silver face, gun metal case
32935113	300 mm round clock, black bars, silver face, stainless steel case
32935158	Three-point mounting fixture

42935105	400 mm round clock, black bars, silver face, white aluminium case
42935106	400 mm round clock, black bars, silver face, gun metal case
42935114	400 mm round clock, black bars, silver face, stainless steel case
42935158	Three-point mounting fixture
23014100	290 mm round clock, black Arabic numerals, plastic case
23024100	290 mm round clock, black bars, plastic case
23034100	290 mm round clock, black fine lines, plastic case
23211100	265 mm round clock, black Arabic numerals, plastic case
33211100	315 mm round clock, black Arabic numerals, plastic case
43211100	415 mm round clock, black Arabic numerals, plastic case
23221100	265 mm round clock, black bars, plastic case
33221100	315 mm round clock, black bars, plastic case
43221100	415 mm round clock, black bars, plastic case
23231100	265 mm round clock, fine lines, plastic case
33231100	315 mm round clock, fine lines, plastic case
43231100	415 mm round clock, fine lines, plastic case
23311100	275 mm x 275 mm clock, white face, black Arabic numerals, plastic case
33311100	325 mm x 325 mm clock, white face, black Arabic numerals, plastic case
43311100	425 mm x 425 mm clock, white face, black Arabic numerals, plastic case
23321100	275 mm x 275 mm clock, white face, black bars, plastic case
33321100	325 mm x 325 mm clock, white face, black bars, plastic case
43321100	425 mm x 425 mm clock, white face, black bars, plastic case
23331100	275 mm x 275 mm clock, white face, fine lines, plastic case
33331100	325 mm x 325 mm clock, white face, fine lines, plastic case
43331100	425 mm x 425 mm clock, white face, fine lines, plastic case
93927000	96 mm x 96 mm control panel clock, white face, black bars
03927000	144 mm x 144 mm control panel clock, white face, black bars