



RUB VI

Distribution module 1:6

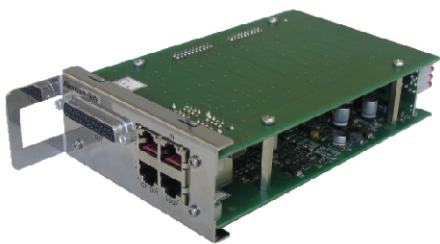
LTC or IRIG-B

Features

- Six built-in LTC or IRIG-B amplifiers
- Monitors all output signals
- Additional reserve amplifier for fail-safe operation

The VI module amplifies one LTC or one IRIG-B signal to six equal outputs. In case of a faulty signal output, a seventh amplifier can be switched to one of the six distributing ports.

Das VI-Modul verstärkt ein LTC- oder IRIG-B-Signal auf sechs Ausgänge. Sollte ein Ausgang ausfallen, kann ein siebter Verstärker per Relais auf einen der sechs Verteiler-Ports umgeschaltet werden.



RUB1 VI rear view

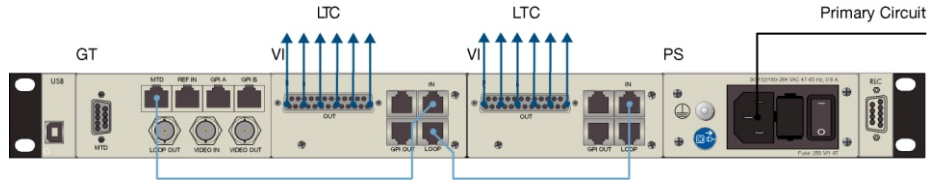
LEDs located on the front of the module indicate the operating status. Built-in GPIs can be preprogrammed to signal errors or other warnings. The backlit keys on the front of the module can be individually configured with the included software. The setup (configuration) of the module is made using a PC via the USB or Ethernet port (optionally).

LEDs an der Frontseite zeigen den Betriebsstatus. Die Tasten, vier GPIs und ein Fehlerrelais sind in ihrer Funktion programmierbar. Die Konfiguration des Moduls ist per PC (USB oder optional Ethernet) möglich.

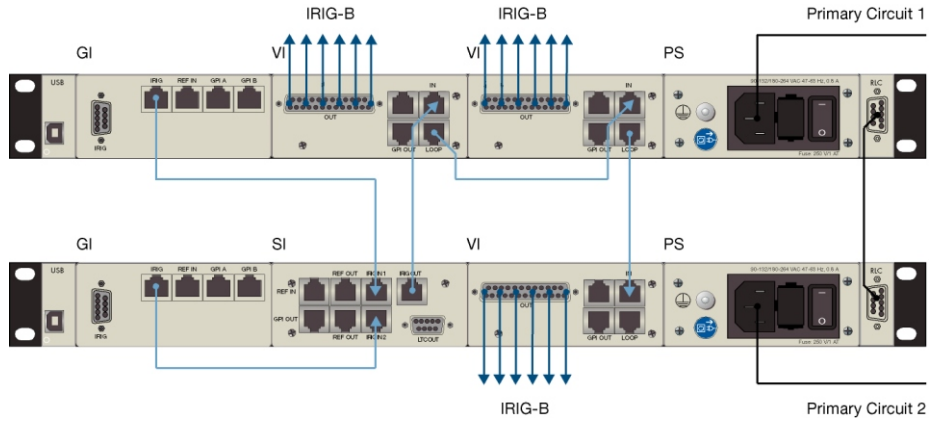


RUB VI in H1 housing





Example of a LTC distribution system, 12 outputs



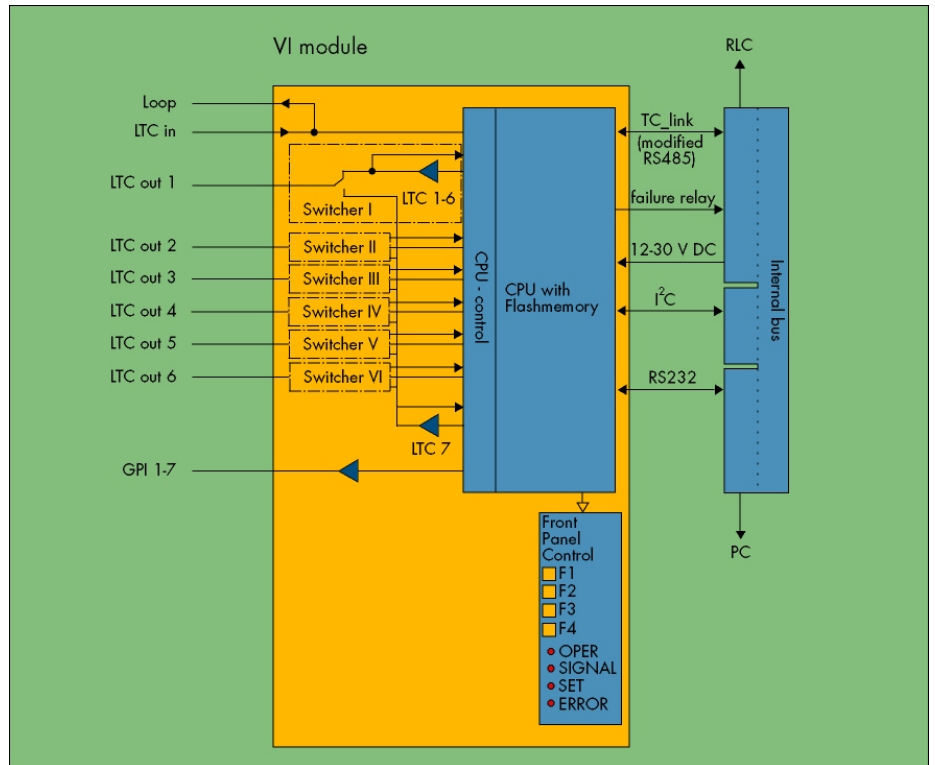
Example of a redundant IRIG-B distribution system, 18 outputs

In order to ensure a fail-safe operation all signals are monitored. In the event of an error, the appropriate output is switched to the reserve amplifier. The changeover is programmable as follows:

- Immediately (automatically)
- At a specified time (automatically)
- Manually (by pushing one of the programmable keys)

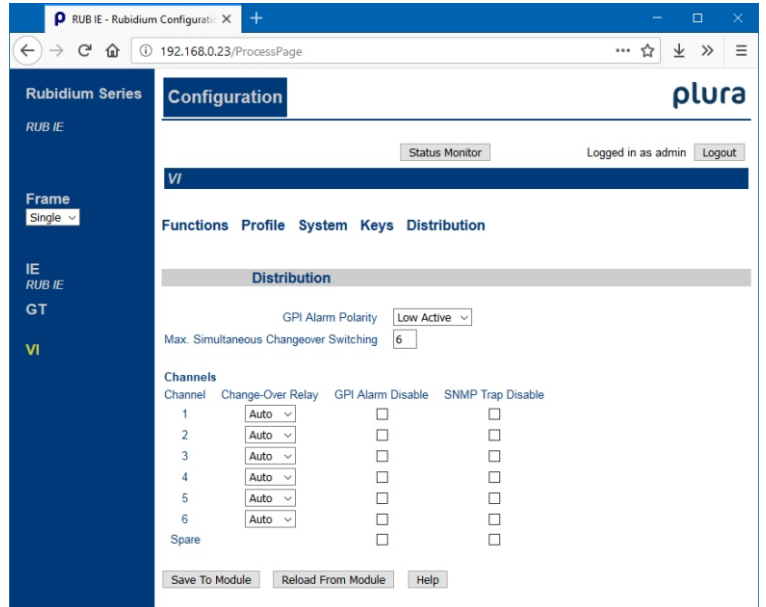
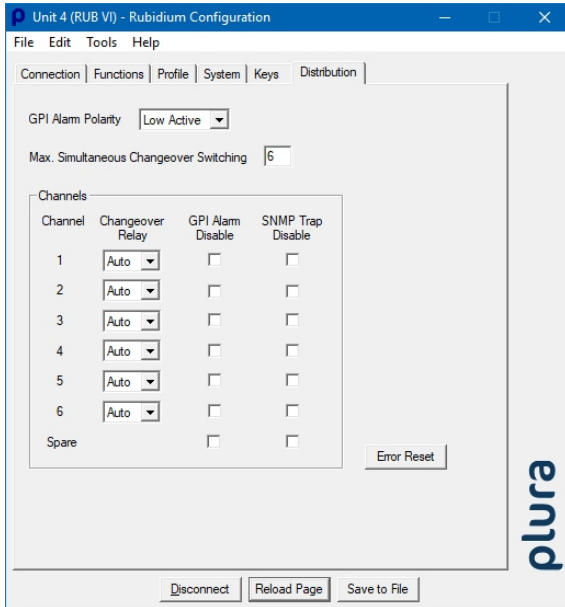
Alle Signale werden überwacht, um einen ausfallsicheren Betrieb zu gewährleisten. Im Fehlerfall wird der entsprechende Ausgang auf den Reserve-Verstärker umgeschaltet. Die Umschaltung ist wie folgt programmierbar:

- Direkt (automatisch)
- Zu einem vorgegebenen Zeitpunkt (automatisch)
- Manuell (mit Hilfe einer der Fronttasten)



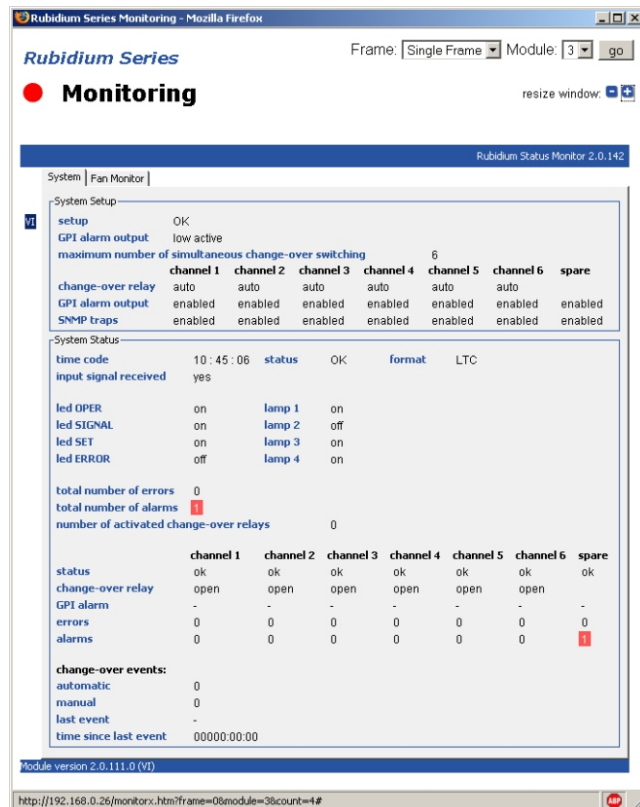
Available functions can be selected by configuration over the housing's USB interface. If a RUB IE Ethernet module is on hand, configuration can also be made via a standard web browser.

Die Konfiguration kann über die USB-Schnittstelle des Gehäuses geschehen. Wenn das System über ein Ethernet-Modul IE verfügt, kann ein standard Internet-Browser hierfür verwendet werden.



A status monitor can be accessed at any time. SNMP is available in combination with an IE module.

Ein Statusmonitor zur Überwachung des Moduls kann jederzeit aufgerufen werden. Per Ethernet ist auch eine SNMP-Überwachung möglich.



Specifications VI module

LTC input

Format

According to ANSI/SMPTE 12M-1999, balanced signals

Input impedance

18 Ω

Signal level

100 mVpp - 5 Vpp, auto-ranging

Frequency

19 - 33 frames/s

IRIG input

Format

IRIG-B123 according to IRIG STANDARD 200-98 or according to AFNOR NF S 87-500, amplitude modulated carrier signal with 1 kHz carrier frequency, balanced signals

Input impedance

18 Ω

Signal level

100 mVpp - 5 Vpp, mark amplitude, auto-ranging

LTC or IRIG outputs

Format

According to signal input, balanced signals

Output impedance

< 50 Ω

Gain

1 ± 1 %

GP_1 - GP_7

Output specification

Open collector output of a NPN Darlington transistor.

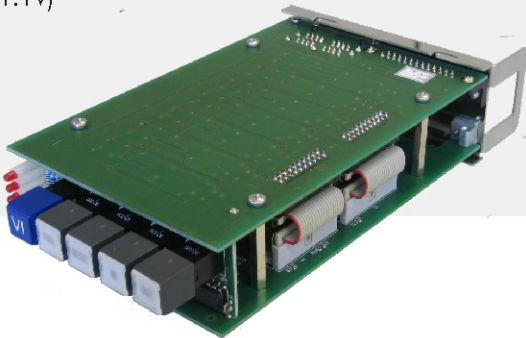
Max. power dissipation: 200 mW.

"High" state: External pull-up needed to a positive power source of less than or equal to 30 VDC, typically 1 kΩ when connected to an external +5 VDC power source

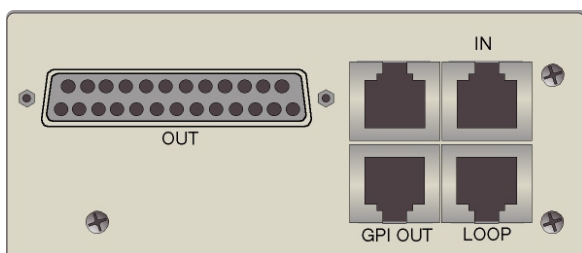
"Low" state: Output switched to GND.

Maximum collector current = 200 mA DC, not fused.

Collector-emitter saturation voltage: @100 mA: typ. 0.9 (≤ 1.1V)



RUB1 VI front view



RUB1 VI rear panel

Others

Operating voltage

12 - 30 VDC

Power consumption

max. 1.6 W (GPI_1 - GPI_7 unconnected)

Weight

0.5 kg approx.

Dimensions RUB H1

2 circuit board (W x D): 100 x 160 mm/3.94 x 6.30 inch

Rear panel: 103 x 44 mm/4.06 x 1.73 inch

Dimensions RUB H3

Rear panel: 3RU, 8HP

Environmental characteristics, operating

Temperature: +5 °C - +40 °C

Relative humidity: 30 % - 85 %, non-condensing

Environmental characteristics, non-operating

Temperature: -10 °C - +60 °C

Relative humidity: 5 % - 95 %, non-condensing

Product ordering ID VI modules

RUB1 VI

Distribution module 1:6 LTC (EBU/SMPTE) or IRIG-B with output monitoring and a redundant change-over switcher for RUBIDIUM Series 1 (1 RU)

RUB3 VI

Distribution module 1:6 LTC (EBU/SMPTE) or IRIG-B with output monitoring and a redundant change-over switcher for RUBIDIUM Series 3 (3 RU)

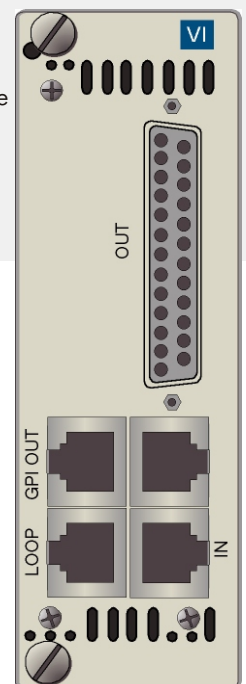
Legend:

LTC: Linear Time Code (SMPTE 12M-1999)

IRIG-B: Inter Range Instrumentation Group (according to IRIG STANDARD 200-98)

The RUBIDIUM modules must be used in conjunction with a RUBIDIUM housing and a RUBIDIUM power supply, please see our overview leaflet for more information.

We reserve the right to modify specifications without notice.



RUB3 VI rear panel

