E1 Tributaries

2048 kbit/s according to ITU-T G.703, G.704 and G.706

E1 Service alarms

according to E/M signalization standard

External clock reference

2048 kHz according to ITU-T G.703/10

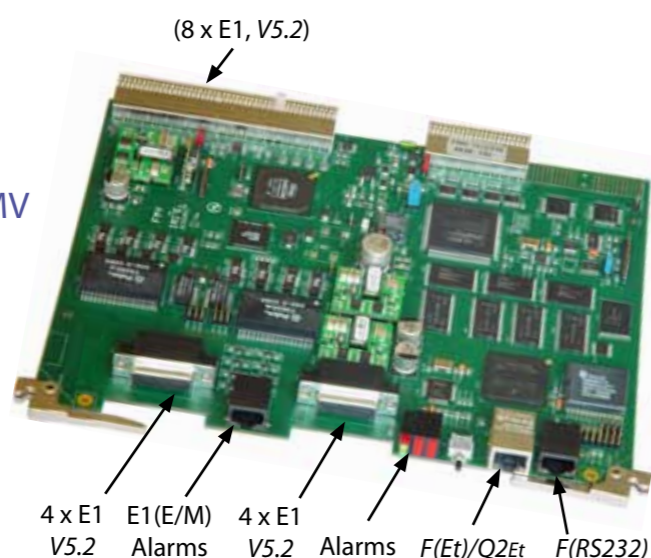### TMN interface

SUNCE-M (proprietary) F (RS232/V.24 or 10/100 BaseTX Ethernet), Q2 (RS485), Q2Et (10/100 bT)

SNMP/V1/V2/V3 RFC 3895 (DS1/E1)

Operating temperature range

-5^0C up to $+45^0$C (class 3.2)

FMV

(8 x E1, *V5.2*)

4 x E1 *V5.2* E1(E/M) Alarms 4 x E1 *V5.2* Alarms *F(Et)/Q2Et* *F(RS232)*

PE1

(8 x E1, *V5.2*)

4 x E1 *V5.2* 4 x E1 *V5.2* Alarms E1(E/M) Alarms
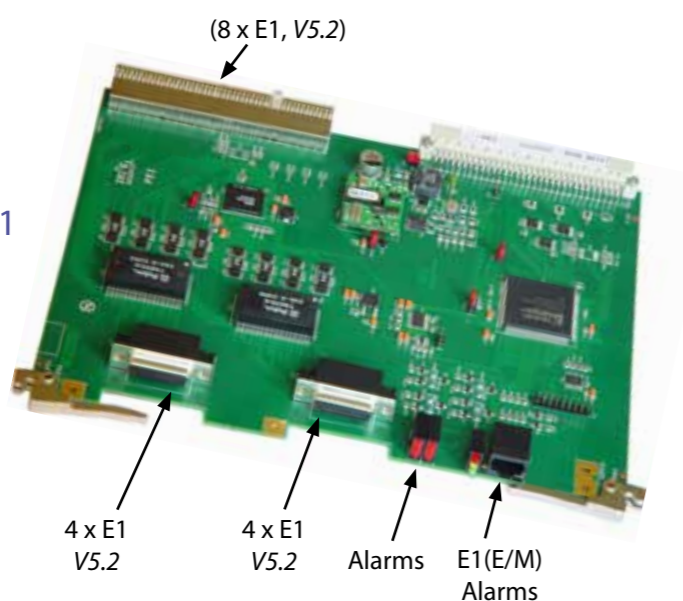
IRITEL AD BEOGRAD

Batajnički put 23, 11080 Beograd, Serbia
General Manager: (+381 11) 3073 515, Sales: (+381 11) 3073 555
Marketing: (+381 11) 3073 544, Exchange: (+381 11) 3073 400, Fax: (+381 11) 3073 434
http://www.iritel.com, e-mail: info@iritel.com

Access Systems

V5CAS
PROTOCOL CONVERTOR

- **1 to 8 E1 links (V5)**
- **Up to 24 E1 links (CAS)**
- **Digital channel cross-connect (non blocking)**
- **Remote multiplexers (CAS) connectivity to V5 interface (up to 660 subscribers)**
- **Concentrator according to V5.2 up to 2400 subscribers, for remote multiplexers and/or V5.2 access nodes**
- **Factory customerable CAS interface for non IRITEL multiplexers**

bright connections

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Applications

V5CAS Protocol convertor provide connection of access multiplexers FM-MSAN and FM2x2 with CAS signalling to telephone exchange with V5 protocol (V5.1/V5.2).

V5CAS enable economic solution to use telephone exchange's V5.2 interfaces for connection access multiplexer with small number of subscribers (60 to 120).

V5CAS enable digital channel cross-connect (64 kbit/s) between all 24 E1 links.

Basic functions

- Connections of remote access nodes: FM2x2 (multiplexer), FM-MSAN (concentrator) to exchange V5.2 interface
- Digital channel cross-connect including corresponding signaling bits between all 24 links (2 Mbit/s) (non blocking)
- Control channel (20 kbit/s or 64 kbit/s) transsmision via V5.2 interface

Configurations

- FMV– multiplex, cross-connect, control and power supplay unit with V5.2 interface
- PE1 – 8xE1 interfaces unit
- PSH – 4 x SHDSL interface unit
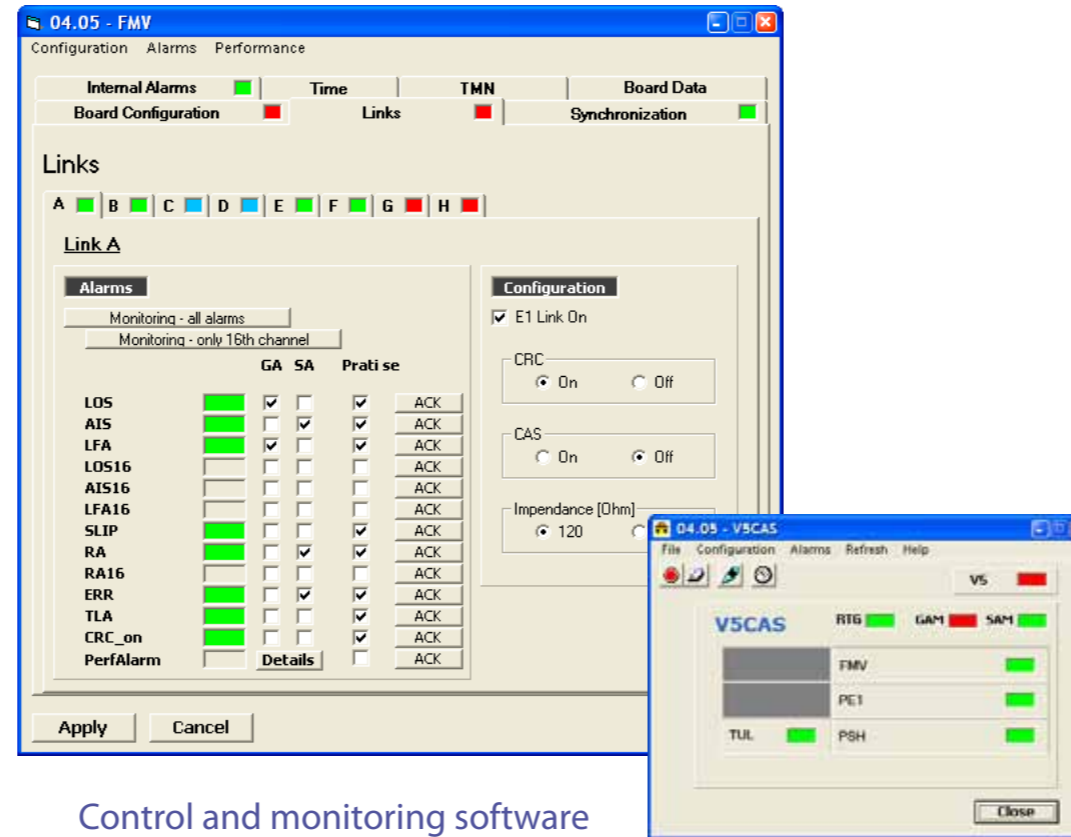
Control and monitoring software

Control and monitoring

Integrated network management system SUNCE-M provides continuous management of V5CAS and all other IRITEL's SDH and PDH equipment (FM-MSAN, FM2x2, ODS155, OTS622 ...).
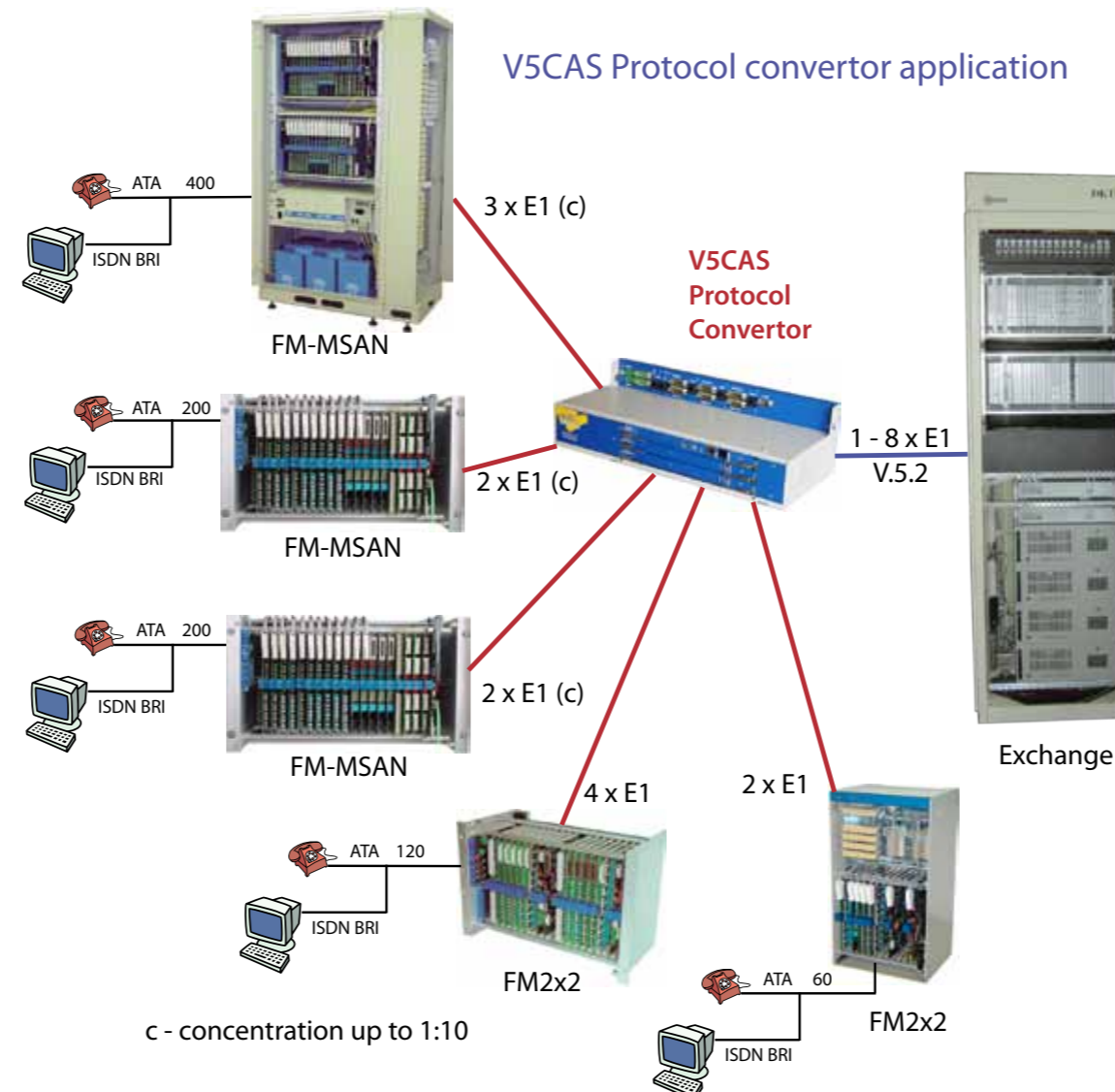
For NMS system integration we support standard interface based on SNMP protocol.

Synhronization

- From internal built-in oscillator ($\pm$ 25 ppm)
- From external 2 048 kHz clock
- From received clock on any external link

Mechanical design

- Unit (233x175x20 mm and 233x100x20mm)
- V5CAS module (120x437x205 mm)
- 19"/ETSI cabinet (2200x600x300 mm)

V5CAS Protocol convertor application

c - concentration up to 1:10