



## ISDN and Analog multiplexer

**arcaplex|Horizon** is an economical way to provide BRI and POTS connections when a PRI is available. The multiplexer, which supports Euro-ISDN and National-ISDN, takes a primary rate ISDN line (E1 or T1) and breaks it into multiple basic rate ISDN lines (S or U) and/or analog lines.

Each basic rate interface uses two B channels of the primary rate line. Hence an E1 PRI (30 B channels) allows up to 15 BRIs using 2 B channels and a T1 PRI (23 B channels) allows up to 11 BRIs using 2 B channels. Once the BRI channels are enabled the remaining available B channels on the PRI can be allocated to the downstream sub-equipped PRI for PBX or other use.

The analog interfaces work independently of the BRIs and a single PRI B channel is used for each analog interface enabled. The analog interfaces work like regular Telco lines and provide -48-V feeding, ringing, and CLI functionality.

### Options include:

- 8 BRI
- 16 BRI
- 16 Analog
- 32 Analog
- 8 BRI and 16 Analog

### Remote access using:

- SNMP
- Ethernet interface
- Modem (option)

### Protocols supported:

- Euro-ISDN
- National-ISDN

### Features:

- Breaks a primary rate line into multiple basic rate ISDN or POTS lines
- Economical way to provide BRI and POTS connections when a PRI is available
- Primary rate switchable E1/T1
- S or U BRI interfaces
- Downstream sub-equipped PRI
- Up to 8 terminals per basic rate line
- POTS interfaces provide -48V feed and ringing
- Protocols supported - Euro-ISDN, National-ISDN
- Mains and -48Vdc versions available

You can access the arcaplex|Horizon via Telnet across a LAN or WAN using the built-in ethernet port. Alternatively you can use SNMP or the internal modem option for remote management. Each BRI can support up to eight terminals. The data links are handled locally and point-to-point and point-to-multipoint links are selectable. Calls are mapped from the PRI to BRI/analog interfaces using an MSN numbering scheme.

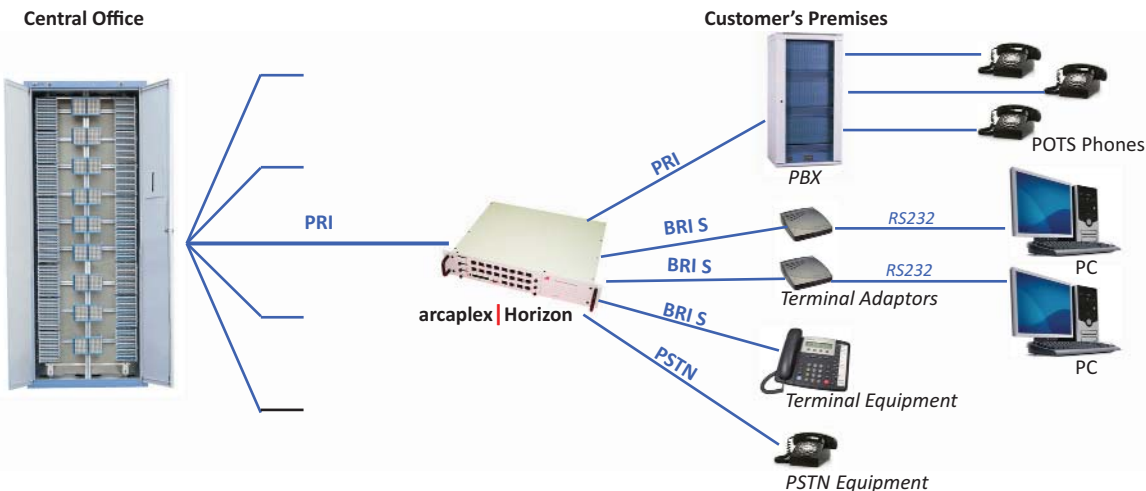
**arcaplex|Horizon** is configured using a V24 interface connection to a PC. Using this connection all of the functions are controlled. Alternatively, the unit can be accessed via Telnet across a LAN or WAN using the built in ethernet port. An internal modem option is also available for management.

ISDN and Analog multiplexer



BRI Power	40V, 1W per S interface; 88V, 3.3W per U interface
BRI Interfaces	S or U - up to 16 interfaces
Channel Mapping	MSN or B channel routing; Multi Line Hunt Group
Analog Power	-48V line feed
Analog Interfaces	Up to 32
PRI Encoding	E1 AMI/HDB3, CRC-4 multi frame/basic frame T1 B8ZS, ESF
Protocols	Euro-ISDN, National-ISDN
Connectors	(0, 8 or 16) BRI ISDN RJ-45; (0, 16 or 32) Analog RJ11; (2) PRI ISDN RJ-45; (1) RS-232/V.24, DB25F; (1) Ethernet RJ45; (1) Internal Modem RJ11
Environmental	0-50°C, 10-80% Humidity, Non Condensing
Ethernet Port	10BaseT
Indicators	(2) LEDs per port: Physical, B channel
Power	110-240 VAC, 90W (mains version) * -36V to -72Vdc, 90W (-48Vdc version)
Weight	5 Kg
Size	9cm x 49cm x 40cm (19" rack including handles) * 9cm x 35cm x 44cm (19" rack excluding handles) 12cm x 48cm x 38cm (desktop)
Warranty	arcaplex Horizon is supplied with one year's product warranty *supplied in 19" rack with mains version as standard

(Basic rate interfaces and analog interfaces are provided by line cards. Up to 2 line cards can be fitted to the arcaplex|Horizon. There are 2 BRI line cards - a card with 8 S0 interfaces (I.430 compatible) and a card with 8 U interfaces (ANSI T1.601 compatible). The analog card has 16 interfaces. The Primary rate interfaces can be configured as S2m interfaces (i.e. E.1 G.703 compatible) or T.1 interfaces.)



**arcatech** - a world leader in emulation since 1993. Our product portfolio includes the emutel™ range of ISDN PRI, BRI and analog Central Office simulators,

**emutel™ | Symphony**  
ISDN simulator,

**emutel™ | Maestro**  
xDSL simulator,

**emutel™ | Virtuoso**  
V5.1 and V5.2 simulator,

**arcaplex | Horizon**  
ISDN multiplexer,

**emutel™ | Harmony**  
Voip and PSTN call generator and network simulator and

**arcareach | Sigma**  
S-bus extender.



**arcatech Ltd**  
210-212 Enterprise Centre  
Ballinderry Road  
Co. Antrim  
BT282SA Lisburn  
Northern Ireland

UK: +44 (0) 28 9267 7204  
US: 1 800 375 9925

F: +44 (0)28 9260 5353

E: sales@ractechn.com

W: www.arcatechn.com