

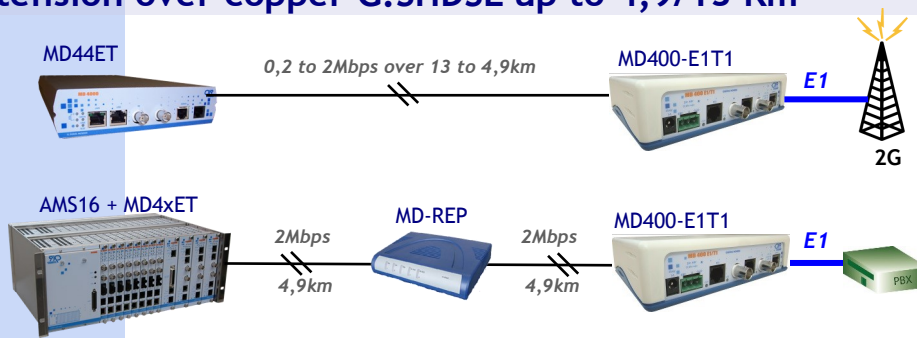
# E1/T1, 2Mbps/1.5Mbps, G703/G704 extension for Telco and infrastructures



CXR deliver solutions to transport E1/T1 links alone or to multiplex together with Ethernet data over copper or fiber optic. These solutions can carry structured E1/T1 voice E1-CAS, E1-R1 or E1/T1 PRI ISDN, or E1 A-Bis, A-Ter or E1/T1 ATM for 2G/3G+ deployment. These equipments are also carrying E1/T1 data in framed G.704 or unframed G.703 mode. This short document present only the "Point to Point" extensions but many solution of multipoint distribution of E1/T1 or drop and insert are available with PDH/SDH multiplexer.

CXR is also offering solutions of Ethernet extension and distribution over E1, E3 and STM-x with EoPDH or EoS. In reverse situation CXR produce solutions to transport E1/T1 or E3/DS3 by processing encapsulation over IP or

## Extension over copper G.SHDSL up to 4,9/13 Km



The CXR G.SHDSL 2/4 wires modems transport E1/T1 2Mbps at 4.9km or 6.5km over 0.4 or 0.6mm copper line.

### MD400-E1T1

G.SHDSL.bis, 2 and 4 wires Modem E1/T1 G703/G704, AC,DC or over the line powered.

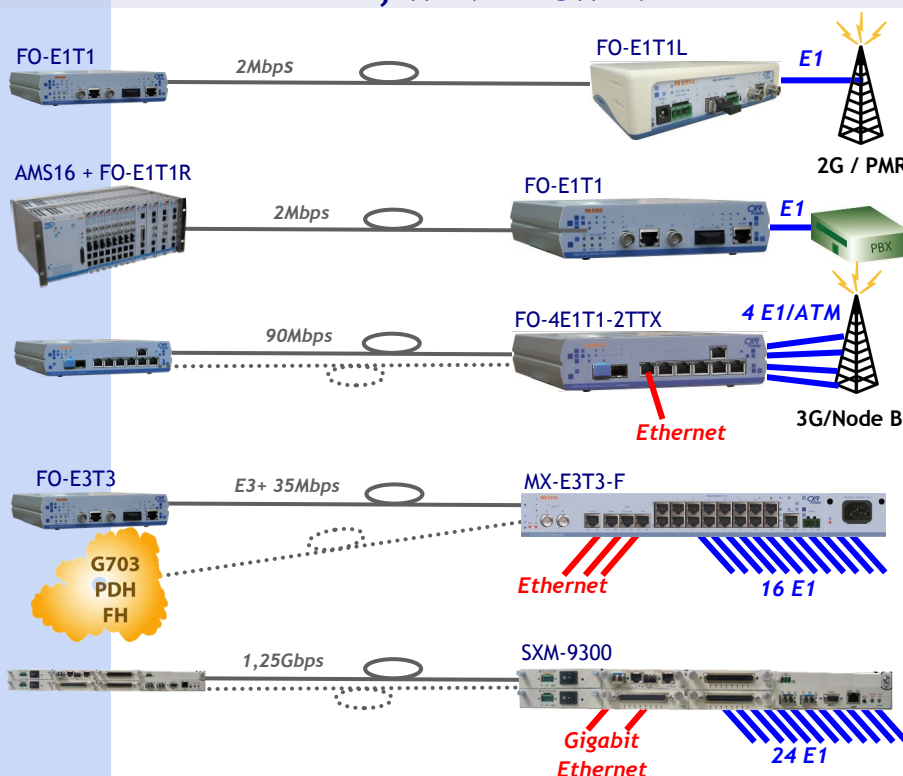
### MD42ET- MD44ET

G.SHDSL.bis, 2 and 4 wires Modem E1/T1 G703/G704, TS cross connect, SNMP, AC or DC power or rack card.

### MD-REP-4W

G.SHDSL.bis 2/4 repeater

## Extension over dark fiber, WDM or CWDM



CXR offer fiber optic solutions with fix transceiver or SFP module MM or SM covering from 2km to 200km, dual fiber, single fiber WDM or Lambda for CWDM optical multiplexer.

### FO-E1T1L

E1/T1 G703 2Mbps/1,5Mbps fiber optic modem, AC or DC power.

### FO-E1T1

E1/T1 G703 2Mbps/1,5Mbps or G704 n 64Kbps fiber optic modem, SNMP, AC or DC power or rack card.

### FO-4E1T1-2TTX

TDM multiplexer over fiber optic 1+1 with 4 E1/T1 G703 2Mbps/1,5Mbps and 2 Ethernet 45Mbps BW, SNMP, AC or DC power or rack card.

### MX-E3T3-F

TDM multiplexer over fiber optic 1+1 with 16 E1 G703 2Mbps, 2 Ethernet 34Mbps BW, SNMP, compatible w E3, dual redundant AC or DC power.

### SXM-9300

TDM multiplexer 1,25Gps over fiber optic 1+1 with 24 E1/T1 G703 and 2 Combo GE, SNMP, dual redundant AC or DC power.

CXR SDH/SONET multiplexers carry E1, T1, E3, DS3 and Ethernet/Gigabit Ethernet over fiber STM1/16 - OC3/48 with SNCP and MSP protection.

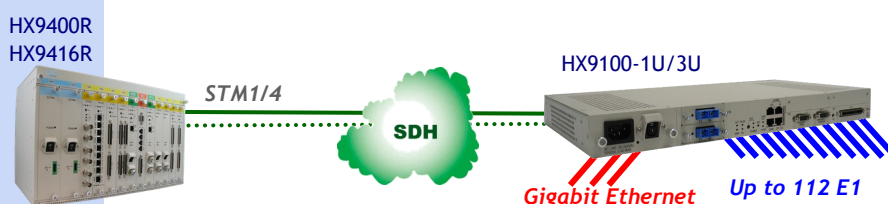
### HX-9100

2STM1, 112E1/T1, 12FE/GE SDH

### HX9400R

Modular SDH/SONET STM1/4/16 with 232 E1/T1 and 32 FE/GE

## Extension over FO SDH STM-1 to16/ OC3 to 48 SONET



**Install E1/T1 voice or 2/3G+ and Ethernet links over copper or fiber optic**

# E1/T1, 2Mbps/1.5Mbps, G703/G704 extension for Telco and infrastructures



## G.SHDSL extension over copper up to 13 Km

	E1/T1	Connexion	Copper	Rate of the line	G703	G704	Chassis	Remote feeding	Power
<b>MD400-E1T1</b>	1 E1 or T1	75 and 120 ohms BNC and RJ45	1 or 2 pairs	200kbps to 2Mbps per pair	Yes	Yes	Plastic	per the ligne	AC, DC 48v remote
<b>MD42FT</b>	1 E1 or T1	75 and 120 ohms BNC and RJ45	1 pair		Yes	Yes w TS cross connect	Desktop or AMS4/16 rack card	No	AC or DC 48/24v
<b>MD44FT</b>			1 or 2 pairs						
<b>MD-REP-4W</b>	E1 over G.SHDSL 4w repeater		2 pairs	1Mbps /pair	Transparent		Plastic or IP67 metal	per the ligne	AC, DC 48v remote feeding
<b>MD-TELPW</b>	transparent	4 input wires 4 regenerate	2 pairs				Metal	Powerfeed the line	DC 48v
<b>QX3440 with card QX3440-4GSH</b>	4 E1 or T1 per card	according to the card	1 pair	200kbps to 2Mbps per pair	Yes	Yes w TS cross connect	19" 5U	No	AC, DC 48v remote feeding
<b>QX3440 with card QX3440-4GSH-TPW</b>								Powerfeed the line	
<b>AMS16</b>	Chassis for G.SHDSL, fiber optic, converter .... with SNMP						19" 4U	AC or DC 48v, redundant	

## Extension over dark fiber or SDH/SONET, simple, WDM or CWDM

	E1/T1	Connexion	Ethernet	Fiber	Mode	Protection	Octic	Fiber rate	Chassis	Power
<b>FO-E1T1-L</b>	1 E1 or T1	75 and 120 ohms BNC and RJ45	-	dark fiber 1 or 2 brins	MM, SM, simple brin WDM, colorée CWDM	-	SFP STM1 or fix	8Mbps	Plastic box	AC or DC 48/24v
<b>FO-E1T1</b>	1 E1 or T1	75 and 120 ohms BNC and RJ45	-	dark fiber 1 or 2 brins		-	SFP STM1 or fix	8Mbps	Desktop or AMS4/16 rack card	AC or DC 48/24v
<b>FO-4E1T1-2TTX</b>	4 E1 or T1	Versions 75 ohms BNC 120 ohms RJ45	2 x 10/100BaseT de 45Mbps	dark fiber 1 or 2 brins		1+1	SFP STM1	90Mbps	Desktop or AMS4/16 rack card	AC or DC 48/24v
<b>MX-E3T3-F</b>	16 E1	Versions 2U 75 ohms BNC 1U 120 ohms RJ45	3 x 10/100BaseT de 34Mbps	dark fiber 1 or 2 brins		1+1	SFP STM1	90Mbps	19" 1U or 2 U	AC or DC 48/24v, redundant
<b>SXM9300</b>	Modular 8,16,24 or 32 E1/T1	75 and 120 ohms, module DB37, cables wrapping, BNC or RJ45	Modular 0 to 8 Combo 10/100/1000Bt & SFP 1000SX/LX/ZX	dark fiber 1 or 2 brins		1+1	SFP GE	1,25 Gbps	19" 1U external Pan for E1/T1	AC or DC 48/24v, redundant
<b>HX9100-1U</b>	28 or 56 E1	Versions 75 and 120 ohms SCSI, PAN BNC/RJ45	0 or 4 x 10/100BaseT	Fiber STM-x	MM, SM, double or simple WDM, colorée CWDM	SNCP or MSP 1+1	SFP STM1 or fix	155Mbps	19" 1U external Pan for E1/T1	AC or DC 48v, redundant
<b>HX9100-3U</b>	Modular 28, 56, 84 or 112 E1	Versions 75 and 120 ohms SCSI, PAN BNC/RJ45	Modular 0 to 12 10/100BaseT	Fiber STM-x		SNCP or MSP 1+1	SFP STM1 or fix	155Mbps	19" 1U external Pan for E1/T1	AC or DC 48v, redundant
<b>HX9400S-1U</b>	16, 32 or 48 E1/T1	Versions 75 and 120 ohms SCSI, PAN BNC/RJ45	0 to 2 x 10/100/1000Bt or 0 to 8 10/100Baset	Fiber STM-x		SNCP or MSP 1+1	SFP STM1/STM4	155Mbps or 622Mbps	19" 1U external Pan for E1/T1	AC or DC 48v, redundant
<b>HX9400R-6U</b>	Modular 16 to 384 E1/T1	Versions 75 and 120 ohms SCSI, PAN BNC/RJ45	8 to 48 x 10/100Bt or 6 x 1000BT	Fiber STM-x		SNCP or MSP 1+1	SFP STM1/STM4	155 or 622Mbps	19" 1U external Pan for E1/T1	AC or DC 48v, redundant
<b>HX9416R-6U</b>	Modular 16 to 512 E1/T1	Versions 75 and 120 ohms SCSI, PAN BNC/RJ45	8 to 64x 10/100Baset or 8 x 1000BT	Fiber STM-x		SNCP or MSP 1+1	SFP STM1/STM4/STM16	155, 622 or 2488Mbps	19" 1U external Pan for E1/T1	AC or DC 48v, redundant