



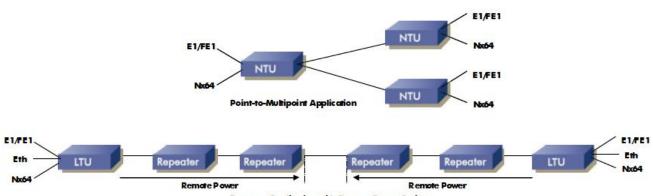
Features:

- 2 and 4 Wire SHDSL (TC-PAM16)
- Up to 2.3Mbps
- E1 (G.703/704, balanced/unbalanced)
- Nx64 (V.35, V.36, X.21, V.24)
- Ethernet Bridge (10/100BaseT)
- 4 or 8 Analog Voice Ports (FXS, FXO)
- Multi-Service Operation
- Point-to-Point and Point-to-Multipoint
- Console Port, Telnet, Web, SNMP Management
- Local and Remote Power Support
- Repeater/Regenerator Support

◆ Description:

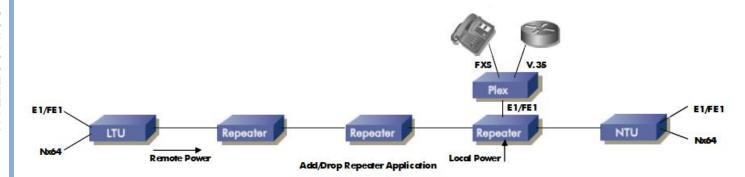
Ittelecom includes a wide range of SHDSL modems targeted to meet both typical carrier applications as well as access network needs. Ittelecom modems are based on industrial components and manufactured according to highest quality standards providing additional value due to extended temperature range and high reliability. Supporting E1 (G.703/704) with a choice of 120 Ohm balanced or 75 Ohm unbalanced, the Ittelecom 1 SHDSL modem additionally offers a universal Nx64 interface that can be adapted to V.35, V.36, X.21 and even V.24 (RS232) interfaces.

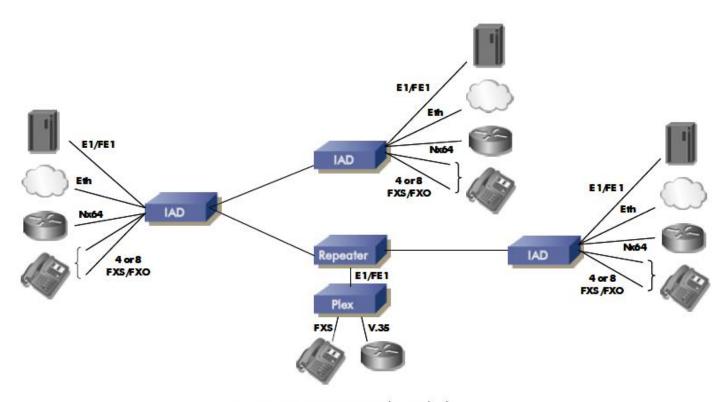
The Line Termination Unit (LTU) even supports Ethernet bridging by presenting a 10/100BaseT Ethernet interface. E1 as well as Nx64 and Ethernet interfaces can be operated simultaneously by easy software configuration. Both, NTU and LTU can be configured to operate either in master or slave mode providing maximum flexibility. While the LTU offers the opportunity to remotely power the NTU over the SHDSL line, it even has the ability to remotely power additional Ittelecom SHDSL repeaters. Optional Point-to-Multipoint support allows not only simple Point-to-Point campus applications, but also provides the opportunity to serve two different sites from one single Ittelecom modem. With an analog voice port extension (FXS/FXO) the Ittelecom modems can easily be upgraded to a comprehensive Integrated Access Device (IAD) for complete, easy, and reliable voice and data convergence. The Ittelecom series is available in various types of housings and mechanics, not only for office use, but also for industrial environments.



Repeater Application with Remote Power Option







Complex Integrated Access Device Application



◆ Technical Parameters :

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• ITT-PAM-SAN-E1B, V31	 DSL Version: SHDSL Modulation: TC-PAM16 Data Rate: 64kbps - 2.3Mbps Copper Pairs: 1 Modes: Master / Slave Interface: 1x E1 (120 Ohm) Power: -48VDC, accepts local and remote power Physical Interfaces: DB15 (E1), RJ45 (SHDSL), Molex (Power), DB9 (Management) Management: Console Port, Telnet and limited SNMP via TCU Power Supply: Not Included (option ITT-PAM-PA48x) Special Version: ITT-PAM-SAN-E1U, V31 offers E1 750hm BNC 	
• ITT-PAM-SAN-N64, V33	 DSL Version: SHDSL Modulation: TC-PAM16 Data Rate: 64kbps - 2.3Mbps Copper Pairs: 1 Modes: Master / Slave Interface: 1x Nx64 (V.35, V.36, X.21, V.24) Power: -48VDC, accepts local and remote power Physical Interfaces: DB25 (Nx64), RJ45 (SHDSL), Molex (Power), DB9 (Management) Management: Console Port, Telnet and limited SNMP via TCU Power Supply: Not Included (option ITT-PAM-PA48x) Remarks: Requires adapter cable (V.35, V.36, X.21, V.24) 	
• ITT-PAM-SAN- E1B/N64, V32	 DSL Version: SHDSL Modulation: TC-PAM16 Data Rate: 64kbps - 2.3Mbps Copper Pairs: 1 Modes: Master / Slave Interface: 1x E1 (120 Ohm), 1x Nx64 (V.35, V.36, X.21, V.24) Power: -48VDC, accepts local and remote power Physical Interfaces: DB15 (E1), DB25 (Nx64), RJ45 (SHDSL), Molex (Power), DB9 (Management) Management: Console Port, Telnet and limited SNMP via TCU Power Supply: Not Included (option ITT-PAM-PA48x) Remarks: Requires adapter cable (V.35, V.36, X.21, V.24) Special Version: ITT-PAM-SAN-E1U/N64, V32 offers E1 75Ohm BNC 	
• ITT-PAM-SAN- E1B/N64-MP, V34	 DSL Version: SHDSL Modulation: TC-PAM16 Data Rate: 64kbps - 2.3Mbps Copper Pairs: 2 (Multi-Point) Interface: 1x E1 (120 Ohm), 1x Nx64 (V.35, V.36, X.21, V.24) Power: -48VDC, accepts local and remote power Physical Interfaces: DB15 (E1), DB25 (Nx64), RJ45 (SHDSL), Molex (Power), DB9 (Management) Management: Console Port, Telnet and limited SNMP via TCU Power Supply: Not Included (option ITT-PAM-PA48x) Remarks: Requires adapter cable (V.35, V.36, X.21, V.24) Special Version: ITT-PAM-SAN-E1U/N64-MP, V34 offers E1 75Ohm BNC 	





DSL Version: SHDSL Modulation: TC-PAM16 Data Rate: 64kbps - 2.3Mbps Copper Pairs: 1 Modes: Master / Slave Interface: 1x E1 (120 Ohm), 1x Nx64 (V.35, V.36, X.21, V.24), 1x Ethernet Bridge ITT- PAM-SAN-(10/100BaseT), Power: -48VDC, accepts local and remote power E1B/N64/Eth/FXx, V37 Physical Interfaces: DB15 (E1), DB25 (Nx64), RJ45 (SHDSL), Molex (Power), 1x DIN41612D (Voice), DB9 (Management) Management: Console Port, Telnet and limited SNMP via TCU Power Supply: Not Included (option ITT-PAM-PA48x) Remarks: Requires adapter cable (V.35, V.36, X.21, V.24) Optional 8x RJ11 adapter for voice interface (ITT-IAD-8V) Special Version: ITT-PAM-SAN-E1U/N64/Eth/FXx, V37 offers E1 750hm BNC **DSL Version: SHDSL Modulation:** TC-PAM16 Data Rate: 64kbps - 2.3Mbps Copper Pairs: 2 (Multi-Point) Modes: Dual Master / Single Slave Interface: 2x E1 (120 Ohm), 1x Nx64 (V.35, V.36, X.21, V.24), 1x Ethernet Bridge ITT- PAM-SA2N-(10/100BaseT), 4x or 8x FXO or FXS E1B/N64/Eth/FXx-MP, Power: -48VDC, accepts local and remote power V42SA Physical Interfaces: DB15 (E1), DB25 (Nx64), RJ45 (SHDSL), Molex (Power), 1x DIN41612D (Voice), DB9 (Management) Management: Console Port, Telnet and limited SNMP via TCU Power Supply: Not Included (option ITT-PAM-PA48x) Remarks: Requires adapter cable (V.35, V.36, X.21, V.24) Optional 8x RJ11 adapter for voice interface (ITT-IAD-8V) Special Version: No E1 750hm Version available **DSL Version: SHDSL Modulation: TC-PAM16** Data Rate: 64kbps - 2.3Mbps Copper Pairs: 2 (Multi-Point) **Modes:** Dual Master / Single Slave Interface: 2x E1 (120 Ohm), 1x Nx64 (V.35, V.36, X.21, V.24), 1x Ethernet Bridge ITT- PAM-SA2N-(10/100BaseT), 4x or 8x FXO only E1B/N64/Eth/FXO-MP-Power: -48VDC, remote power source, accepts local and remote power **RP, V42M** Physical Interfaces: DB15 (E1), DB25 (Nx64), RJ45 (SHDSL), Molex (Power), 1x DIN41612D (Voice), DB9 (Management) Management: Console Port, Telnet and limited SNMP via TCU **Power Supply:** Not Included (option ITT-PAM-PA48x) Remarks: Requires adapter cable (V.35, V.36, X.21, V.24) Optional 8x RJ11 adapter for voice interface (ITT-IAD-8V) Special Version: No E1 750hm Version available



P/N: ITT-TM162



• ITT- PAM-SRL-E1B, V25	 DSL Version: SHDSL Modulation: TC-PAM16 Data Rate: 64kbps - 2.3Mbps Copper Pairs: 1
	 Copper Pairs: 1 Modes: Master / Slave Interface: 1x E1 (120 Ohm) Power: -48VDC, local power Physical Interfaces: DB15 (E1), RJ45 (SHDSL), DB9 (Management)
	 Management: Console Port, Telnet and SNMP via TCU Power Supply: Not Included (ITT-ACU-SR, optional ITT-TCU-SR) Special Version: ITT-PAM-SRL-E1U, V25 offers E1 750hm BNC
• ITT- PAM-SR2L-E1B- MP-RP, V36	 DSL Version: SHDSL Modulation: TC-PAM16 Data Rate: 64kbps - 2.3Mbps Copper Pairs: 2 (Multi-Point) Modes: Dual Master / Dual Slave Interface: 2x E1 (120 Ohm) Power: -48VDC, remote power source, local power Physical Interfaces: DB15 (E1), RJ45 (SHDSL), DB9 (Management) Management: Console Port, Telnet and SNMP via TCU Power Supply: Not Included (ITT-ACU-SR, optional ITT-TCU-SR) Special Version: ITT-PAM-SR2L-E1U-MP-RP, V36 offers E1 75Ohm BNC
• ITT- PAM-SRL- E1B/N64/Eth/FXx, V39	 DSL Version: SHDSL Modulation: TC-PAM16 Data Rate: 64kbps - 2.3Mbps Copper Pairs: 1 Modes: Master / Slave Interface: 1x E1 (120 Ohm), 1x Nx64 (V.35, V.36, X.21, V.24), 1x Ethernet Bridge (10/100BaseT), 4x or 8x FXO or FXS Power: -48VDC, local power Physical Interfaces: DB15 (E1), DB25 (Nx64), RJ45 (SHDSL), DB9 (Management) Management: Console Port, Telnet and SNMP via TCU Power Supply: Not Included (ITT-ACU-SR, optional ITT-TCU-SR) Remarks: Requires adapter cable (V.35, V.36, X.21, V.24) Special Version: ITT-PAM-SRL-E1U/N64/Eth/FXx, V39 offers E1 75Ohm BNC
• ITT- PAM-SRL- E1B/N64/Eth/FXO-RP, V39RP	 DSL Version: SHDSL Modulation: TC-PAM16 Data Rate: 64kbps - 2.3Mbps Copper Pairs: 1 Modes: Master / Slave Interface: 1x E1 (120 Ohm), 1x Nx64 (V.35, V.36, X.21, V.24), 1x Ethernet Bridge (10/100BaseT), 4x or 8x FXO only Power: -48VDC, remote power source, local power Physical Interfaces: DB15 (E1), DB25 (Nx64), RJ45 (SHDSL), DB9 (Management) Management: Console Port, Telnet and SNMP via TCU Power Supply: Not Included (ITT-ACU-SR, optional ITT-TCU-SR) Remarks: Requires adapter cable (V.35, V.36, X.21, V.24) Special Version: ITT-PAM-SRL-E1U/N64/Eth/FXO-RP, V39RP offers E1 75Ohm BNC



• ITT-PAM-SR2L-E1B/N64/Eth/FXx-MP-RP, V42RP

- > **DSL Version:** SHDSL
- Modulation: TC-PAM16
- Data Rate: 64kbps 2.3Mbps
- Copper Pairs: 2 (Multi-Point)
- Modes: Dual Master / Master-Slave
- Interface: 2x E1 (120 Ohm), 1x Nx64 (V.35, V.36, X.21, V.24), 1x Ethernet Bridge

(10/100BaseT), 4x or 8x FXO **Power**: -48VDC, local power

- Physical Interfaces: DB15 (E1), DB25 (Nx64), RJ45 (SHDSL), DB9 (Management)
- Management: Console Port, Telnet and SNMP via TCU
- Power Supply: Not Included (ITT-ACU-SR, optional ITT-TCU-SR)
- Remarks: Requires adapter cable (V.35, V.36, X.21, V.24)
- Special Version: No E1 750hm Version available





