NTS Xtend is designed to provide PassPort operators with expanded flexibility in the design and layout of their trunked system network. Trident Micro Systems’ NTS Xtend is the perfect solution for any PassPort operator seeking to expand NTS (Network Trunking System) coverage or add additional sites to a network without installing a Trident NTS at every site in the network.

NTS Xtend is comprised of three individual components:

1. The **NTS Xtend Card** is an NTS Application Card which provides connectivity between the host NTS and the Xtend system.

2. The **NTS Xtend Link Controller** manages communications between the host NTS and the NTS Xtend Trunking Controller(s).

3. The **NTS Xtend Trunking Controller** provides logic for each of the individual channels (to a maximum of three) at the remote Xtend site.

**Flexible Connectivity Options**
An NTS Xtend site may be connected to its host NTS through a wide variety of analog and digital connectivity methods.
NTS Xtend Connectivity

NTS Xtend offers flexible options for linking an NTS Xtend site to an NTS. System design and layout is simplified through the availability of both analog and digital connectivity capabilities.
**NTS® System**

**Digital Networked Trunking**

NTS from Trident Micro Systems connects directly to the NTS Xtend sites in a PassPort trunking network. The NTS is a fully scalable network solution with a unique distributed network architecture. Every NTS is easily expanded with plug-in application cards and stackable chassis. And, NTS is ready to grow with your digital radio migration requirements as well.

The NTS and NTS Xtend product group offers unparalleled flexibility in network design and configuration. The PassPort trunking protocol delivers the features users demand and the system management network operators need.

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**Component Specifications**

1. **NTS® Xtend Card**
   - Motorola Part# RRDN4689A
   - Transmit & Receive 0 dBm
   - Full or Fractional T1, Clear Channel D4
   - Slide-in Card for NTS
   - Hot Swapable
   - Settings Automatically Updated
   - Remote Maintenance
   - Local Service Port Connection
   - 19200 Baud, 8, 1, None Interface DB-9 DTE
   - ANSI-BBS Color

2. **NTS® Xtend Link Controller**
   - Motorola Part# RRDN4688A
   - **Power and Programming**
     - Power: 12-16 Volts DC, 350mA @ 12V
     - RS-232 Hardware Support: DCD, DTR, TXD, RXD (DTE port)
   - **T1 Level Specifications**
     - Maximum Transmit Distance: 655 feet in DSX-1 mode
     - Maximum Transmit Level: -7.5 dB in CSU mode
     - Receive Level Dynamic Range: +2 dB to -22.5 dB
     - Maximum Current on T1 Line: 0.55A
     - T1 Line Impedance: 100 Ohm
     - Optional DC bias from TX to RX
   - **Supported Formats**
     - D4 or ESF
     - AMI or B8ZS
     - Clear channel on timeslot one only, Timeslots 2-4 may be compressed, Timeslots 5-24 are not used.
     - Full or Fractional Support
   - **4 Wire Level Specifications**
     - Maximum Transmit Level: +7 dBm
     - Audio Volume Control Range: +7 dBm to >-60dBm
     - Transmit Audio Range: +7 dBm to ~60dBm
     - Receive Audio Range: +7 dBm to ~60dBm

3. **NTS® Xtend Trunking Controller**
   - Motorola Part# RRDN4690A
   - **Repeater Interface**
     - Discriminator Input: 50mV to 1 volt
     - TX Audio Output: 0 to 2 volts Peak to Peak
     - TX Data Output: 0 to 2 volts Peak to Peak
     - PTT Output: Open Drain FET 200mA
   - **Comm Port Interface**
     - Baud Rate: 1200 or 2400 Baud
     - Interface Type: DB-9 DTE
   - **Data Bus Interface**
     - T-NET: Proprietary Data Bus
   - **Electrical**
     - Power Supply: 11 to 15 volts DC @ 750mA
   - **Environmental**
     - Operating Temp: -40° to 60 Degrees Celsius
     - Humidity: 90% Non-condensing
   - **Physical**
     - Size: 1.75"H x 19"W x 6"D
     - Mounting: 19" Rack - Adjustable Ears
     - Weight: 3.5 lbs.

For more information, contact:

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