

Traffic Hardware Network Translators

NTCIP for Legacy Hardware Features

Peek Traffic has created the IQ Connect translators to enable older traffic hardware to communicate with Peek's NTCIP central system software, IQ Central®. IQ Connect is available either as a standalone unit to be attached to your hardware via a cable, or as a plug-in card (available for the 3000E controller.)

This unique solution provides a variety of methods to connect your legacy hardware to the IQ Central central system, including high speed direct serial connections, a variety of serial modem options (including radio modems), as well as 100Base-T Ethernet connections.

- Enables full NTCIP communications between non-NTCIP speaking hardware and Peek's IQ Central package
- High-speed serial connection to older hardware
- Functions as an Ethernet gateway for older hardware (100Base-T) that have no other Ethernet option available
- Ethernet Link and Ethernet Active LEDs
- Firmware updates via flashable memory
- Battery backed SRAM
- Compatible with daughter COMMS boards
- High speed Rabbit 3000 processor
- Initialization and Heartbeat LEDs
- Supports connections to central via external dialup modem, with automatic initialization of the modem
- Device and Central COMMS activity LEDs
- Local serial port (RJ-11) for direct local computer interfacing
- Local reset button available from the front panel
- Device ID set from front panel DIP switches
- Pigtail to connect to DC power included (a separate AC power supply can be ordered)

Supported Hardware

Intersection Masters

- Multisonics OSAM-32
- Peek M3000E
- Traconex TMM 500
- Transyt 3800EL

Intersection Controllers

- Multisonics 820A OSAM
- Peek 3000 and 3000E
- Peek/TCT LMD 9200
- Traconex 390CJ
- Transyt 1880EL
- Wapiti 170

Controllers can be controlled and programmed from the central software either as isolated local units, or through a master controller's connections to the local intersection devices. This includes status monitoring, central overrides, preemptions, log retrieval, and all other central command options that are available for each make and model of controller device. The exact capabilities available from central are determined by the capabilities of the controller unit, not any limitations of the IQ Connect translator.



Specifications

Property	Description
Dimensions	2.25"H x 4.75 W x 7.25"D (57mm x 121mm x 184mm)
Weight	15.6 oz (0.44 kg) (not including power supply and cables)
Temperature	-30°F to +155°F (-34°C to +74°C)
Microprocessor	Rabbit 3000
Clock Speed	11 MHz
Power Input	8 – 30 VDC
Power Usage	2 Watts (without an optional Comms daughter board installed)

Communications

Ethernet	100Base-T, Full Duplex
Local Port	RS-232, 9600 baud
Central Port	RS-232, 115,200 baud (configurable)
Comms Expansion Capability	Peek Comms daughter board socket

Physical Description

The IQ Connect hardware has been designed to handle the harsh environment of a roadside cabinet setting, including a large range of operating ambient temperatures. The box version of the unit is mounted in a painted steel enclosure. All pertinent controls are available from the front and rear panels of the shelf-mounted version of the device. The same controls for the internal card version of IQ Connect are accessible from the front panel of the 3000E, or are located conveniently along the top edge of the card when installed in the controller, easily accessed when the front panel of the 3000E is tilted open. Front panel LEDs provide status information about the overall health of the unit, and communications activity on both the shelf-mount and controller card versions.

Two Year Limited Warranty

Peek Traffic warrants this product against manufacturing defects in materials and workmanship for two years from date of shipment from Peek Traffic. Specific contracts and regional laws may vary or alter these terms.



Rear view of the IQ Connect translator

Ordering Information

The IQ Connect translator can be ordered as either a standalone unit or as a card module. You will need to specify what type of controller or master the unit will be connecting to the central system. IQ Connect comes with the cable required to connect the unit to the device. You will be asked to specify whether you want an AC power adapter or a DC connection cable to power the IQ Connect unit. A cable to connect a PC to the local port of the unit is available as an optional item.

Translator Assembly for: (includes device cable)	Part Number
Peek 3000E Local (internal card)	82-1732-01
Peek 3000E Local	82-1691-01
Peek M3000E Master	82-1691-03
Multisonics OSAM32 Master	82-1691-02
Multisonics 820A Local	82-1691-04
Transyt 3800EL Master	82-1691-07
Transyt 1880EL Local	82-1691-08
Traconex TMM 500 Master	82-1691-05
Traconex 390CJ Local	82-1691-06
Peek LMD 9200 Local	82-1691-01
Wapiti 170 Local	82-1691-10
Central/PC Cables (for Connection Type)	
Ethernet	Standard cables
Direct RS232 to Central port	81-1140
External GDI Dialup Modem to Central port	81-1243
External Dialup Standard Modem to Central port	81-1166
Direct RS232 (Serial) to Local Port	81-1139
Power Supplies	
AC Adapter	2X03-0002
DC pigtails to cabinet power	81-1244
Local PC and Flash Cables	
Direct 232 (Serial) cable for Local port	81-1139
2mm Flash Programming Cable	20-101-0513



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