



• DESCRIPTION

With the DVB interface module (NTC/3453) installed as the only one in an Azimuth chassis, this module already offers a versatile data interface converter from ASI to SPI, or vice versa.

It also offers standard a manual or automatic ASI input redundancy switching.

When adding options such as the optical sub modules, or the software options for Automatic Rate adaptation or BISS scrambling, this unit opens a lot of alternate applications. (see relevant data sheets NTC/2130/BISS and 2130/RA resp.)

All Control and Monitoring parameters are available locally on the front panel (LCD display & keyboard) and remotely through a web interface (Http) or through the RS-485/232 port or through the 10/100 Base-T Ethernet port. The last two use the RMCPv2 protocol. There is optionally an SNMP + MIB agent.

• APPLICATIONS

This configurations is meant for any situation where there is a need to convert e.g. ASI to SPI, or ASI coax to ASI optical (or vice versa), or SPI to ASI (again optical or coax)

The ASI/SPI converter can either work as a stand-alone unit, or the ASI/SPI converter module can be integrated in the chassis with e.g. a modulator module, another type of data interface or specific software features.

Even two of those modules can be installed in one Azimuth chassis where space is restricted.

• FEATURES

- Coax-ASI Input/Output and SPI input
- Two selectable ASI inputs (auto or manual)
- ASI coax output
- Optional ASI optical inputs/outputs
- Fully DVB compliant
- Local & remote M&C access to all menus through a
 - * web interface (Http protocol)
 - * RS-485/RS-232 (RMCPv2 protocol)
 - * 10/100Base-T Ethernet port (RMCPv2 + SNMP/MIB)
- User programmable menu structure
- Action Keys (group of commands under 1 button)
- Real-time clock for alarm occurrence logging
- Internal test-generator, PRBS counter
- Dynamic build up of alarm menus
- Very compact: 1 RU (height: 4,4 cm !)
- Highly reliable Newtec design
- Low cost
- CE label
- Diagnostics generator

• VERSIONS & OPTIONS

1. Base Band Data interface Output modules :

The interchangeable Base Band data interface modules provide a wide range of input interfaces via coaxial and/or sub-D connectors. Optical inputs and outputs are also available.

- NTC/3453.BA.Ax: DVB ASI/SPI/Serial-LVDS interface card
Hardware option: optical ASI in/out plug-in NTC/3453.x.x.A

2. 10 MHz Reference Board (optional) :

In case one needs a 10 MHz reference input and/or output, the following options are available:

- NTC/3462/AB.A: 10 MHz OCXO reference Oscillator (normal use)
- NTC/3462.AA.A: 10 MHz OCXO High Stability Ref. Oscillator (recommended only with carriers < 1MHz)

3. SNMP agent and MIB library (optional) :

needed whenever the unit needs to be controlled over ethernet via nms.

• DATA SUMMARY

ASI INPUTS (EN 50083-9) :

188 or 204-byte mode	
connector	: BNC female @ 75W
return loss	: > 17 dB (22-270 MHz)
sensitivity	: 200 mVpp
max. input	: 880 mVpp
max. data rate	: 250 Mb/s

ASI OUTPUTS (EN 50083-9) :

188 byte mode	
connector	: BNC female @ 75W
level	: 800 mVpp $\pm$ 10%

MONITOR & CONTROL INTERFACES :

- a) protocol : Http (via webbrowser)
connector: RJ-45
electrical: Ethernet 10 base-T
- b) protocol : RMCP version 2 only
connector: 9 pin sub-D female
electrical: RS-485 / RS-232
- c) protocol : RMCP version 2 only over
TCP-IP or UDP, SNMP
connector : RJ-45
electrical: Ethernet 10 base-T

ALARM INTERFACE :

connector	: 9 pin sub-D (F)
electrical	: switch-over contact

MECHANICAL :

1U 19" rack
4.4 cm high x 55 cm deep,
weight 3 kg

POWER SUPPLY :

90-130/180-260V, 60VA, 47-63Hz

TEMPERATURE :

operational : 0 to 40 deg C

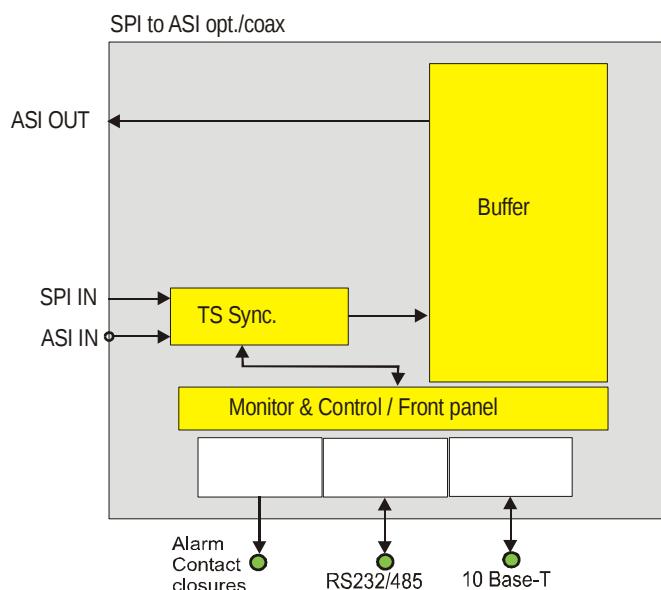
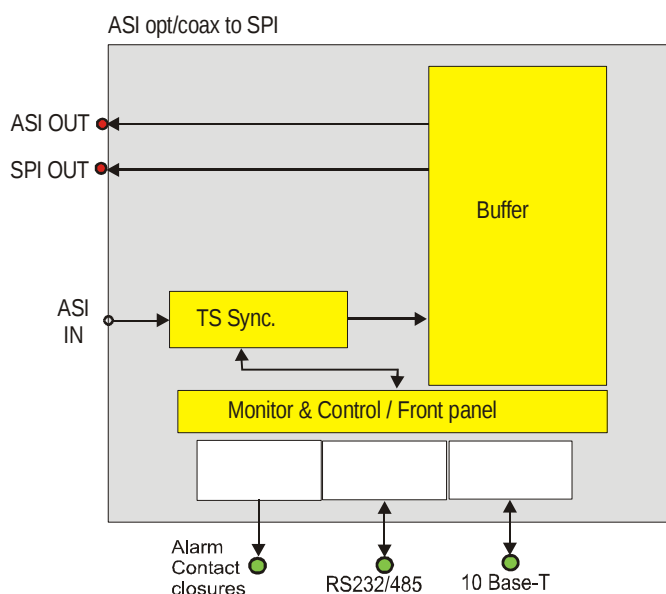
Monitoring

All monitoring and alarm information are accessible via the front panel, 10Base-T connection (HTML or SEMS), or via RS232/485.

Configuration help:

The AZIMUTH series provides a nearly non-exhaustive number of configuration possibilities. A web-based configuration tool will easily guide you through your selection criteria. Alternatively, Newtec's sales and support team are at your full disposal for any additional information you might need. (See last page for coordinates)

• BLOCK DIAGRAM (ONE INTERFACE BOARD CAN BE INSTALLED PER CHASSIS)



• TECHNICAL LITERATURE & REFERENCES (ALSO AVAILABLE ON OUR WEBSITE)

Other related products

AZIMUTH	Product families
NTC/2130/xx	Data Processor Family
NTC/2130/BISS	BISS Scrambler
NTC/2130/RA	Automatic Rate Adapter
NTC/2280/xx	L-band DVB-S2 Modulator / Up converter
NTC/2277/xx	IF output DVB-S2 Modulator

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JDN: 29/08/2007

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