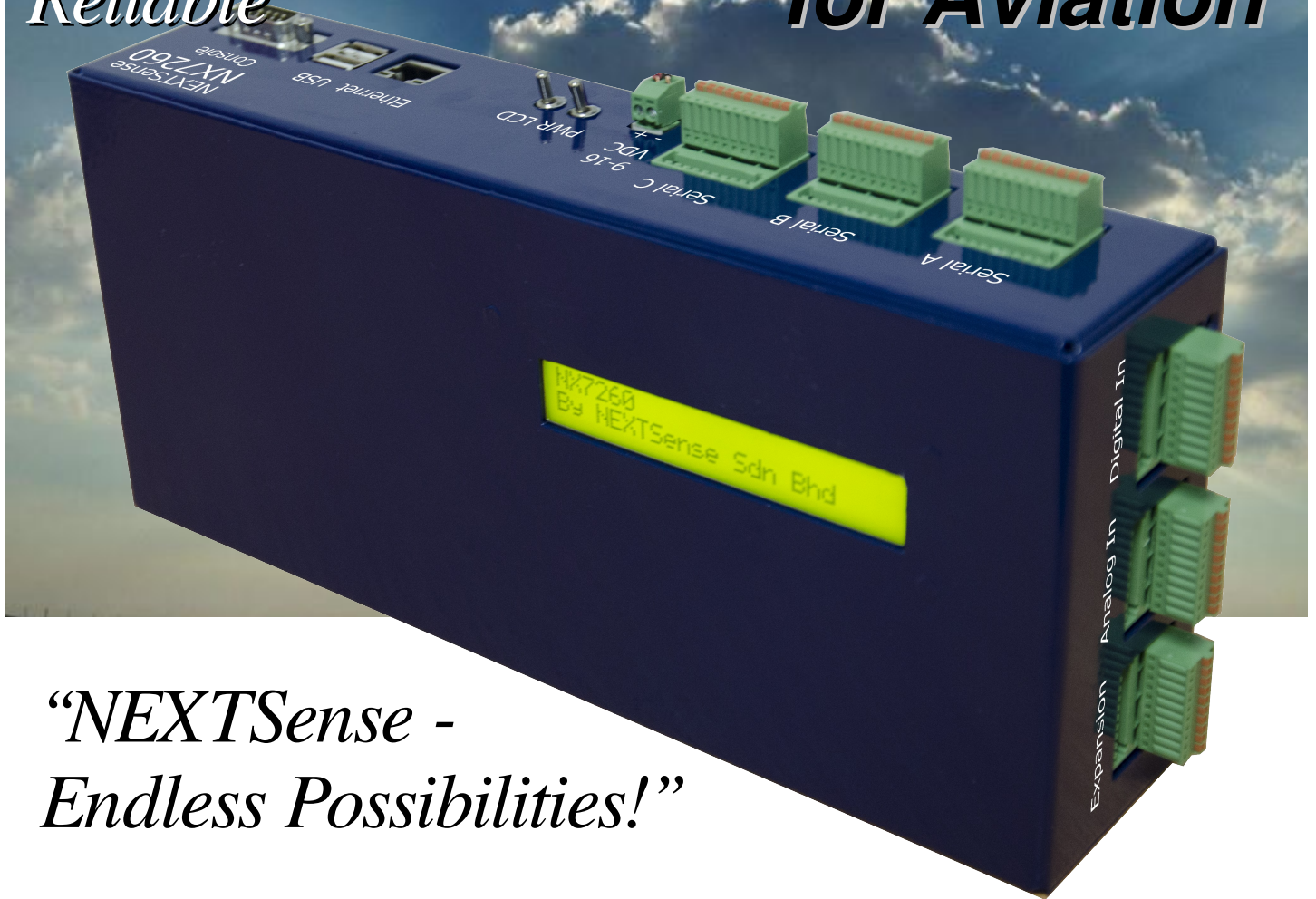


*Flexible, Powerful and
Reliable*

***NX7560
for Aviation***



***“NEXTsense -
Endless Possibilities!”***

The NEXTsense NX7260 is an intelligent data logger that offers a complete set of acquisition, processing, logging and dissemination features. It is designed especially for automated weather stations – where system reliability and flexibility are important.

The NX7260 is compatible with most of the industry's leading weather sensors via its many built-in open and standard interfaces. It has been interfaced to anemometers (analogue, digital and intelligent), multi-element sensors, solarimeters, tipping bucket rainfall sensors, water-level and current profilers.

It is capable of reading data from intelligent sensors using RS232/RS422/RS485 streams with regular expression parsers and also MODBus Serial and TCP/UDP protocols. Analogue sensors are supported via its on-board voltage/current inputs and also digital counter/frequency/bit-series inputs.

Raw data from sensors can be converted to engineering values via linear, quadratic and mapping formulas.

Engineering values can be range-validated with bad data marked as invalid at source. Its processing engine is designed for meteorological use and features algorithms for wind averaging, determining directional span, pressure reduction, and deriving humidity products, in addition to standard aggregation features such as minimum, maximum, average and summation.

Results can be logged to an SQLite database that is stored on a removable SD Storage card. The processing engine can generate CSV and message files (SYNOP, CLIMATE Hourly/Daily) from the database and disseminate these reliably via a queue-based FTP agent. Data can also be streamed via TCP in real-time to other servers via WAN links.

A C/C++ Software Development Kit allows user-defined algorithms and message formats can be incorporated through modular plugins.

NX7560 *Intelligent Data Logger for Aviation*

NEXT
sense

Eight on-board differential analog input ports that can be used to measure voltages and current signals.

An internal expansion bus allows additional signal conditioning and input types to be added in the future.

Removable SD Storage Card for logging data.

LCD display provides direct view of data, and may be switch off to conserve power.

USB port allows connection to high-speed HSDPA / 3G / EDGE / GPRS cellular modems.

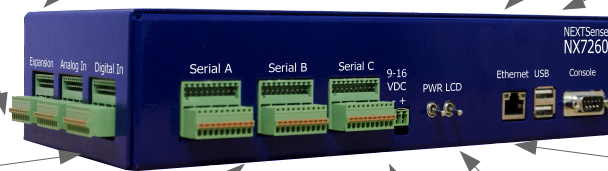
Ethernet port allows direct connection to LANs, and support WANs via VSAT, Leased Line, xDSL and WiFi.

Power Switch. Input power is from 6-20VDC. Power consumption is 230mA @ 12VDC.

Plugable connectors make maintenance work easy.

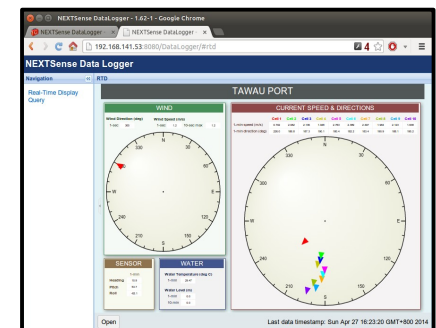
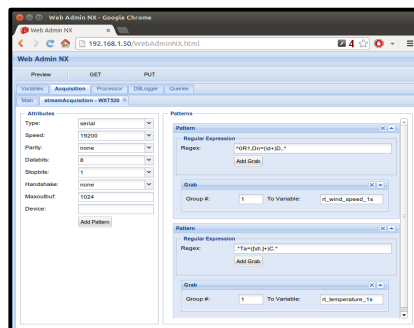
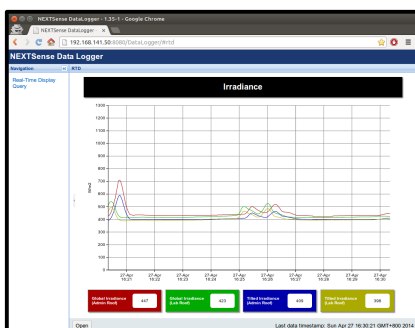
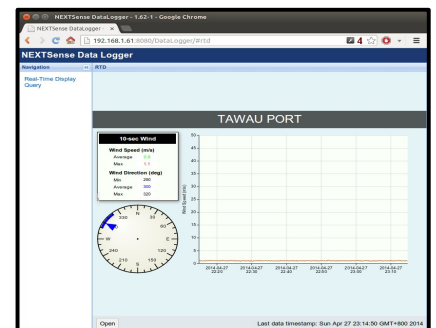
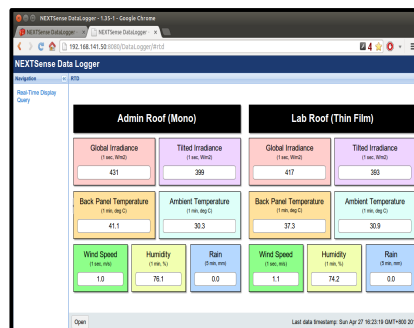
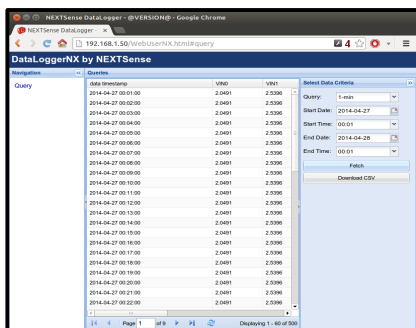
Three RS232 ports are standard, with one doubling as a RS422/485 port. An additional 4 RS232 ports may be added through internal expansion.

Sixteen on-board digital digital inputs. All of these can return on-off states. Eight of them can be used as counter and frequency monitors. The other eight can be used for gray-code or BCD inputs.



An HTML5 Web-sockets based interface allows data to be viewed as text, wind dials and charts live in real time, whether from a local PC or remotely, via WAN links. Mobile browsers are supported as well.

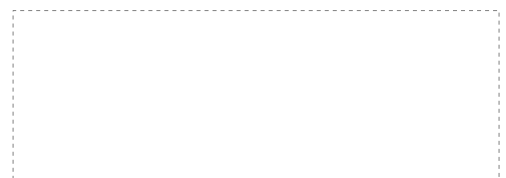
Configuration of the NX7560 can be done via a Web Based UI, PC-based configuration tool, or can be managed from a central configuration server.



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Dealer/Distributor:



NEXTsense Sdn Bhd (983385-D)

*Flexible, Powerful and
Reliable*

***NX7560
for Aviation***



Technical Datasheet

Processor:

CPU: 32-bit Cirrus EP9302
ARM9 CPU (200 Mhz
ARM920T)

RAM: 64MB

Flash: 32MB

External: SD Card Slot

Serial Ports:

RS232/RS485: 3/1

Analog inputs:

Differential Voltage/Current: 8
Voltage Ranges: Voltage ranges
supported are 0-5V down
to 250millivolt ranges.

Digital Inputs:

DI: 16

USB: 2

Power Requirements:

6-20VDC

230mA @ 12V

Dimension:

Size: 30cm x 10 cm x 5 cm

Weght: 1200g

Protocols:

Protocols Supported: Full Linux
TCP/IP Stack, DHCP,
FTP, HTTP, NTP, PPP,
PPPoE, OpenVPN.
TStream Protocol.

Software Features:

Data Logging: Configurable
(minimum 1s)

Data Transmission: FTP,
Streaming, SMS.

Data Formats: CSV, SYNOP,
custom format.

Compressed option
available.

Conversion:

Linear/Quadratic/Map

Calibration: Linear/Quadratic/
Directional

Calculation for Runway Visual
Range.

Calculation for Head, Tail, Cross
Wind For Aviation

NEXTsense Sdn Bhd (983385-D)

Web Support:

Real Time Display: Text, Wind
Dial/Barb, Running Charts
Data Query: Tabular, Paged
Data Download: CSV, PDF

Health Monitoring:

Sensors: Input Power, Onboard
Temperature
Statistics: Memory Usage,
Storage Card Usage, CPU
Load

Configuration:

Methods: Web-Based Forms,
Upload Download XML,
Standalone PC tool,
centralized configuration
server.

Settings: Sensors, I/O , Data
Conversion, Data
Calibration, Data
Validation, Derived
Products, Logging,
Dissemination.