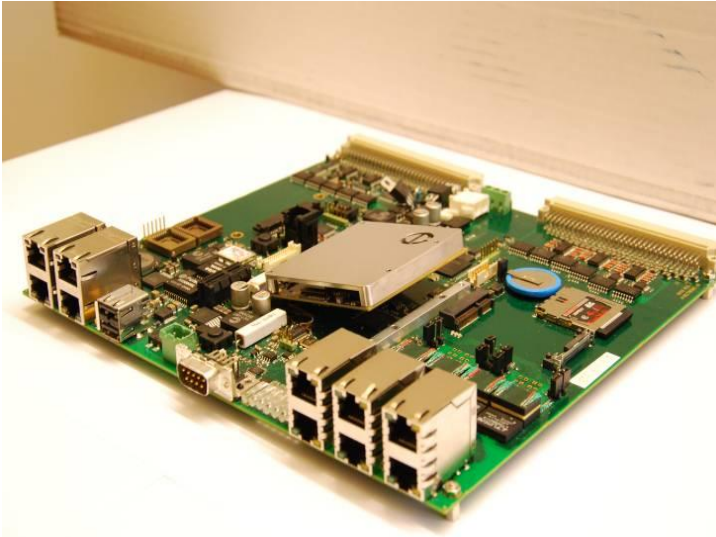


# SENSOR PLATFORM BASED ON QSEVEN



## FIELD SENSOR PLATFORM

This customized carrier board is a field sensor platform/logger for rough and remote outdoor environments. Its design and wide variety of I/O enables it to be integrated with almost any kind of sensor and communication solution on the market. The platform is designed for high quality, serviceability and long-lifetime (>10 years). The components are carefully chosen for their high reliability and well known and long-term availability.

## CUSTOMIZED MEASUREMENT SOLUTIONS

We design a customized solution based on this sensor platform. Sensors are integrated; data is collected and processed to perform different customer solutions. The platform is equipped with a powerful processor and therefore is suited for performing processing and analysis in the field.

## EXAMPLE OF SOLUTIONS

- Weather station (road, rail, airport)
- Ice detection system
- Lightning monitoring and warning system
- Power line monitoring
- Radiation monitoring and warning system
- Traffic monitoring
- Variable speed limits with adjustable road signs

## Q7 COMPUTER-ON-MODULE

The Qseven concept is an off-the-shelf, Computer-On-Module that integrates all the core components of a common PC and is mounted onto an application specific carrier board. The Qseven module provides the functional requirements for an embedded application.



**VI ÄR ALLA KONSULTER PÅ COMBITECH**, ett av Sveriges största konsultföretag som kombinerar teknik, miljö och säkerhet. Vi är ca 800 medarbetare på 20 orter.

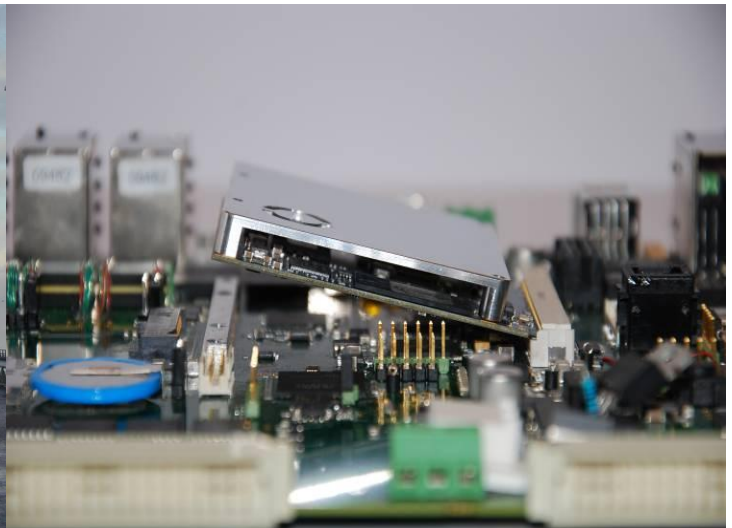
# SENSOR PLATFORM BASED ON QSEVEN

## SENSOR PLATFORM FEATURES

Parameter	Specification
Ethernet	4 x 10/100/1000 Megabit Ethernet
Serial ports	2 x RS-232 4 x RS-232/422/485 (selectable)
USB	2 x USB 2.0
GPS	1 x GPS receiver, 50 channels
SDIO	1 x Secure Digital Input/Output (WLAN, ZigBee, Bluetooth, storage)
PCIe PCIe mini card	1 x PCIe x1 slot (graphic card, exp) 1 x PCIe mini card (GPRS, GSM)
Storage	1 x SATA
Display	1 x LVDS connector
Watchdog	Dedicated MCU for supervision of the carrier board and Q7 module

## SENSOR PLATFORM FEATURES

Parameter	Specification
Digital	16 x Input 16 x Output 16 x Bidirectional Input/Output
Analogue	16 x Input
Counter	8 x Counters
FPGA	1 x FPGA for high speed processing of digital, analogue and counter inputs/outputs
Power	5 VCD, 12 VCD for PCIe
Operating system	Linux or Windows
Temperature	-40 ... +55 C°
Size	233,4 x 220 mm
CPU	QSeven CoM slot 70 x 70 mm <a href="http://www.qseven-standard.org">www.qseven-standard.org</a>



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