

### SOLEXUS SOLAR JUNCTION BOX SERIES 1104 MCSP

Solexus 1104 MCSP series offers complete monitoring and control of the PV Solar module. The unit communicates wirelessly with the central command box which is connected to the internet.

- Performance monitoring of each individual module
- Performance gains in excess of 20% through identification and isolation of poor performing modules
- Fire prevention mechanisms
- Safety monitoring for early fault diagnosis for all system components

Solexus 1104MCTN provides major safety and performance benefits and the uniquely low cost nature of the technology can be customised to meet individual customer and partners' technology requirements.

The system consists of Slave, Master and Monitor.

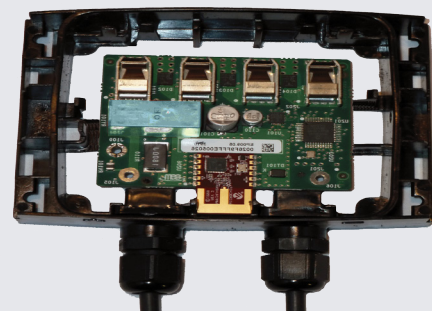
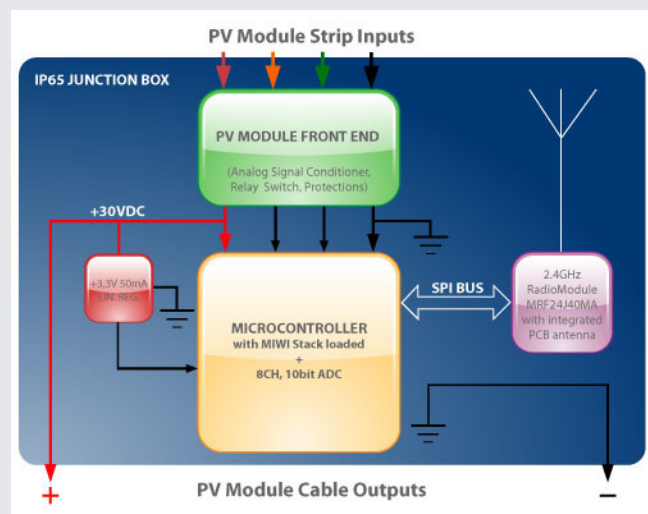
The Slave unit is placed into the Junction Box and directly connected to the PV module. It collects the PV module's parameters and send the data to the Master device by wireless connection.

the Master collects PV modules data from Slave devices and sends them to the Host (i.e. Computer or Server) by an RS485 wired connection.

The Host receives all data from all Master devices and runs the application Software "Monitor" that shows the PV data in a dashboard format. The SPIM application is also available through Web Service.

The application Software designed and bundled with Spim system runs on any Windows based Computer and allows the user to keep control of the status and the performance of every single PV module

The User interface software is built in WPF® Windows Presentation Foundation and is written with Microsoft.Net Framework 3.5®. Working with all Windows® OS



# SOLEXUS JUNCTION BOX SERIES 1104 MCSP SPECIFICATIONS

## ELECTRICAL CHARACTERISTICS

- Rated voltage: TUV:1000V DC / UL:600V DC
- Working voltage 40 V DC
- Contact resistance:  $\leq 5m \Omega$
- Current rating: 10 A
- Safety Level: class II
- Diodes: 3, Schottky

## COMPUTER REQUIREMENTS

- CPU: Intel or AMD dual core
- System Clock: 2.0 Ghz, recommended 2,5 Ghz
- Ram: 2 Gb, recommended 3 Gb
- HD free space: 20 Gb
- CD R/W: yes
- Screen Resolution: 1280 x 1024
- Video Adapter: ATI or Nvidia 512 Mb
- Operating System: Windows®: XP, Vista, Windows 7
- SW Requirements: Microsoft .Net 3.5 sp1, Microsoft
- SW Requirements: SQL Server (release 2005-2008)
- Connections: TCP/IP
- Connections: PC ports TCP 9000 and 8000
- Connections: USB 2.0

## MECHANICAL CHARACTERISTICS

- Locking mechanism to align top and bottom housing
- Removable top cover
- Temperature range:  $-40^{\circ}C + 85^{\circ}C$
- Overall dimensions:
  - Length: 106mm
  - Width: 78mm
  - Height: 19.90mm
- Cable type: 4mm<sup>2</sup>/ 6 mm<sup>2</sup>
- Cable length: on request
- Connectors: all solar types
- Durability: 20 cycles (top to base)
- Housing material: PPO
- Housing color: Black
- Flame class: UL94-V0
- Contacts:
  - Material: Copper alloy
  - Plating Contact Area: Tin (Sn) over Nickel (Ni)
- Cable pull-out force: 500 N
- available in a version for
  - standard ribbon configuration
  - back-contact crystalline solar cells.

