TRANSIT STANDARD INTERFACES

Squelch Upgrade Board

Squelch Upgrade Board for efficient read range adjustment of the TRANSIT readers. The SUB can be applied when the full reading range of the TRANSIT reader is not required or in applications where reading range should be adjusted. When integrating the SUB in the TRANSIT Standard or Extended reader, the received signal strength of a tag can be adjusted to ensure that only strong signals from the tag will be read and therefore reading range can be determined. The system operates as outlined by the graphic below. On the Squelch line the tag will not be read, above the Squelch line the tag ID will be read. Every TRANSIT reader will receive regular and real time the signal strength of the tag. Accordingly wanted and unwanted reflections are separated by means of a variable Squelch adjustment. The Squelch can be adjusted manually on-site.

HID Interface Board

The HID Interface Board enables decoding of HID prox cards by the TRANSIT Standard reader in case of Booster applications used in combination with HID prox cards. The HID Interface Board needs to be installed in the TRANSIT Standard reader to enable long-range reading of the HID prox card in combination with the Booster HID, Prox-Booster or Transition-Booster device. The Booster will transmit the card information encrypted to the TRANSIT Standard reader. The HID Interface Board will ensure that the received card information is decoded and transmitted to a controller in the programmed card format. The HIB has integrated RS232 interface to allow communication to a PC over RS232. For example to adjust reader settings and to download new firmware in the reader. In addition a Wiegand output is available in order to enable easy integration to any existing installation.

Profibus DP

Profibus is a vendor-independent, open field bus standard, according EN 50170, for a wide range of applications in manufacturing, process and building automation. With Profibus, devices of different manufactures can communicate without special interface adjustments.

Profibus can be used for both high-speed time critical data transmission and extensive complex communication tasks. The Profibus family consists of three compatible version, Profibus DP, PA and FMS. structure according for use in industrial applications.

Profibus DP, in accordance with DIN 19-245/3, is specially designed to control remote I/O at the device level and is optimized for high speed communication and inexpensive hook-up.
Within this level the Nedap RF-Identification technology can also be used and is fully compliant with the above mentioned standards. Therefore easy implementation of the Nedap RF-ID equipment in a great variety of applications is guaranteed.

TCP/IP Interface Board

The TCP/IP communication board is designed to connectNedap RFID devices with a serial interface to an Ethernet network using the TCP/IP protocol.

RS422/RS485 Interface Board

Optional interface board for integration of the TRANSIT reader to a RS422 or RS485 communication network.

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Technical information	Squelch Upgrade Board
Dimensions exterior space	340 x 265 x 110 mm [13.4 x 10.4 x 4.3 in]
Temperature	0 ...+40°C [+32 ... +104°F]
Applied for readers	9990410 TRANSIT Standard 9875220 TRANSIT Standard USA 9876510 TRANSIT Edge
Part number	7800150 Squelch Upgrade Board (SUB)
Documentation	SUB_InstallGuide_English

Technical information	HID Interface Board (HIB)
Dimensions exterior space	70 x 60 x 11 mm [2.8 x 2.4 x 0.4 in]
Temperature	0 ... +40°C [+32 ...+104°F]
Applied for readers	9990410 TRANSIT Standard 9875220 TRANSIT Standard USA 9876200 TRANSIT Entry
Required firmware	P81
Part number	7819102 HID Interface Board (HIB)
Documentation	HIB_InstallGuide_English
Applied for Boosters	9848940 Booster HID 9895744 Prox-Booster (single id) 9895736 Prox-Booster 9895752 Transition-Booster

Technical information	Profibus DP
Dimensions [mm]	60 x 81,5 x 20 (2.36 x 3.21x 0.79)
Integration in reader types	SGIII, GIII-C, GIII-C Ex, GIII-CM and TRANSIT Standard
Operating temperature	0 ...+40°C [+32 ... +104°F]
Storage temperature	-30 ... +65°C [-40 +165°F]
Humidity	10% ... 93% none condensing
Power supply	Through readers
Galvanic separation	Max. 600V
Interfaces	RS 485 twisted pair or Fiber optics
Communication protocols	OSI according ISO 7498
Baud rate (kbit/s)	9.6 ... 12000, automatic Baud rate detect
I/O length	210 bytes
Part number	7817134 Profibus DP Interface Board

Technical information	TCP/IP Interface Board
Dimensions exterior space	60 x 81 mm
Integration in reader types	9990410 TRANSIT Standard
Interface	TCP/IP Ethernet RJ45
Part number	7817940 TCP/IP Interface Board

Technical information	RS422/RS485 Interface Board
Integration in reader types	9990410 TRANSIT Standard
Part number	7817347 RS422/RS485 Interface Board