

## PHL 2700 RFID

### FEATURES

- Read and Write RFID tags
- Combines laser bar code and RFID technologies
- 8 MB memory stores large amounts of data
- Compact and light weight, fits any hand
- Intuitive RFID operation simplifies training
- Software Development Kit supports standard ANSI C functions
- Easily exports data to MS Excel or MS Access



PORTABLE LASER DATA TERMINAL WITH RFID

### THE NEXT GENERATION HIGH PERFORMANCE TERMINAL

The PHL 2700 RFID terminal reads and writes data to smart labels manufactured by multiple vendors (13.56 MHz / ISO-15693). This small, light-weight terminal is easy to use and is packed with features found in more costly terminals.

This terminal adds RFID capability to the popular PHL 2700 data collection terminal proven in installations throughout the globe.

Rugged and easy to use, the PHL 2700 RFID is suited to a wide variety of business applications, such as security, time and attendance, postal tracking, airline baggage movement and various tracking inventory applications.

RFID offers the unsurpassed speed, accuracy and security you need. With RFID technology, you have the ability to positively and conveniently identify individual items in harsh environments.



#### IRU2700

*Cradle for terminal and rechargeable battery pack*



#### Data Collection

*Programmability and portability in one terminal*

A complete command set defines reading, writing and protection of data for single and multiple blocks on each tag.

A preloaded application allows the terminal to scan a barcode and write the data to a smart tag. This allows easy conversion of existing bar code labels. Advanced programming aids are available for more experienced programmers.

The PHL 2700 RFID terminal combines two data collection technologies into one compact package at a very attractive price.

"I trust  
Opticon's  
judgment  
and advice  
implicitly."

### OUR PROMISE

*At Opticon, our mission is to provide bar code scanning products that are easy to use, built-to-last, fit your exact requirements and are supported by an experienced, responsive team of professionals. We believe that accomplishing our mission is dependent upon operating with a set of important core values—Passion, People, Creativity and Teamwork. All our employees work to understand and apply these values in everything that they do.*

# PHL 2700 RFID

## PORTABLE LASER DATA TERMINAL WITH RFID

### RFID

RF Frequency	13.56 MHz
Tag Manufacturers	Texas Instruments Tag-It™, Phillips I-Code™
ISO Standard	ISO 15693
RF Read Range	up to 1.5 cm

### OPTICAL

Light Source	Visible Laser Diode, $\lambda = 650$ nm
Scan Rate	100 scans/sec
Reading Range	0-9"/13 mil
Reading Width	2.3" at 1" from window 9.0" at 10" from window

### ELECTRICAL

Battery Life	
"AA" Alkaline Cells (x2)	78 hours at 12 scans/min
NiMH (rechargeable)	40 hours at 12 scans/min
NiMH Recharging Time	8 hours with the cradle
Back-up Power	Lithium battery maintains data in RAM for 30 days without main battery
Auto Power Off	User programmable for 0-60 minutes of inactivity
Interfaces	RS232 by cradle or direct cable IrDA V1.1 on terminal

### ENVIRONMENTAL

Temperature	
Operating	-10 to 40 °C (14 to +105 °F)
Storage	-20 to 40 °C (-4 to +105 °F)
Humidity (non-condensing)	
Operating	20 to 80%
Storage	20 to 90%
Drop Test	4' to concrete; 10 drops (all sides)
Regulatory Approvals	ISO 9002 certified mfg. facility This product conforms to 21 CFR 1040.1 and 21 CFR 1040.11, CDRH Class II CE Certified, FCC part 15 Class A FCC ID: Q2Q-1989 (RFID module)

### PHYSICAL

Case Material	ABS Plastic
Dimensions (L x W x H)	177 x 62 x 41 mm (7 x 2.5 x 1.6 in)
Weight	195 g (6.8 oz), excluding batteries

### IRU-2700 CRADLE

Communications	RS232 (To host) RS485 (For daisy chaining) IrDA (To terminal)
Connector	RS232 (DB9) & RS485 (6 pin modular)
Dimensions	150 x 90 x 81 mm (5.9 x 3.5 x 3.2 in)
Weight	250 g (8.8 oz)
Case Material	ABS Plastic

### DECODEABLE SYMBOLOGIES

Codabar(NW-7); Code 39; Code 93; Code 128; Industrial 2of5; Interleaved 2of5; Italian Pharmaceutical; Tri-Optics; Matrix 2 of 5; MSI/Plessy; UK Plessy; S-Code; Telepen; UPC-A&E;WPC

### FUNCTIONALITY

Memory	8 MB RAM for data 512 Kb flash ROM for application
Microprocessor	16-Bit
Real Time Clock	Quartz RTC, time & data programmable, leap year handling ( $\pm 60$ sec/month)
Display	Backlit 128 x 64 Pixel graphic LCD 4/8 lines x 16 characters 5/10 lines x 21 characters Low battery indicator for main and back-up batteries
Keypad	27 keys total (26 keys user definable) 8 function keys, alpha/numeric input
Programming	Download from PC via cable, cradle or IrDA Preloaded with sample application

### ORDERING INFORMATION

Description	Part Number
RFID Terminal Kit	PHL-2700-SK2
RFID Terminal Only / 8 MB Memory	PHLTM80B-01
IRU-2700 Cradle Kit	IRU-2700K-000
Multiple Battery Pack Recharge	MHBC-2620K-000
Rechargeable Battery Pack (NiMH)	02-BATNMH-01
RS485 Cable for Daisy Chain	41-IRU485-00
RS232 Cable, Cradle to Host	41-IRU232-00
RS232 Cable, Terminal to Host	41-PHL232-01
Holster with Belt	PHLHOLSTER-01

### DEVELOPMENT TOOLS

Description	Part Number
PotStar Basic	42-GENBAS27-00
PotStar Pro	42-GENPRO27-00
NetO ActiveX	42-NETODLL-01
Load DLL	42-LOADDLL-01
SDK (Compiler & Libraries)*	42-2700K-000

\* Special RFID library functions included in SDK

### WARRANTY

Opticon laser-based products are for a period of one (1) year, including parts and workmanship. Visit our web site for details

### TECHNICAL SUPPORT / SALES

Opticon's experienced, well-trained technical support team is available to answer questions and assist you in every way possible in support of our products. Call today to find out how this terminal can be adapted to your application: 800.636.0090, or visit our website at [www.opticonusa.com](http://www.opticonusa.com)

25-DPHLR102-01 Rev A  
Specifications subject to change without prior notice.



CUSTOM-BUILT. BUILT TO LAST.



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