symbol®

LDT 3805 Laser Data and LRT 3800 Laser Radio Terminal Series

Portable Terminals for Scan-Intensive Applications with Batch and Wireless Data Communications Capabilities

symbol®

Get a Grip on Integrated Laser Scanning, Advanced Computing and Data Transfer – All in a Single Device

Symbol Technologies' LDT 3805 Laser Data Terminal and LRT 3800 Laser Radio Terminal Series offers laser scanning, portable computing and optional real-time wireless communications in lightweight, compact units that go where the data is – even in rugged environments.

Easy to Use, Tough to Abuse
Well balanced and with a comfortable grip, the LDT 3805 and LRT 3800 Series are ergonomically designed for single-handed scan-intensive applications – leaving the other hand free to complete key entry, tagging and other tasks.

When alphanumeric input is required, the 35- or 46-key sealed rubber keyboard enables simple and accurate manual keying. A super-twist LCD backlit display features large characters for easy reading. And, the 16-bit DOS architecture provides easy development of demanding interactive programs for retail and industrial applications.

Tough, too: These lightweight, portable terminals are constructed to withstand a 4'/1.2 m drop to concrete, and they're environmentally sealed against severe weather conditions. Plus, their extended temperature range assures reliable operation in cold environments down to -9° F/-23° C.

Batch or RF Data Communications Options
Three models in the series offer you a choice of data collection and communications technology:

▸ The LDT 3805 Laser Data Terminal is ideal for batch data capture. For portable applications, the 4.2 megabyte memory option enables you to process large amounts of information on site, speeding the work flow. A compatible PC adapter connects the LDT 3805 to your PC for data uploading or downloading.

▸ The LRT 3800 Laser Radio Terminal uses Symbol's Spectrum One® spread spectrum radio frequency (RF) network for online data exchange with your host computer. This fast, interference-free wireless solution features a high-performance cellular design for reliable throughput while providing long-range operation and data security.

▸ The LRT 3840 Laser Radio Terminal offers Spectrum24,® Symbol's next-generation wireless LAN. Designed to comply with the proposed IEEE 802.11 standard for wireless LANs, Spectrum24 features easy connectivity to your host with a commitment to open

standards. It's ideal for operations requiring high levels of data throughput.

Whether you choose batch, Spectrum One or Spectrum24 data transmission, this series of terminals improves employee productivity by quickly and accurately collecting data, giving you access to vital information in support of faster, better informed decisions.

Retail Applications
In the retail marketplace where quick response translates into rapid delivery, reduced inventory and improved customer service, the LDT 3805 and LRT 3800 terminals manage data so you can manage inventory counts, shelf price audits, receiving, stock transfers, price markdowns, purchasing and much more. The wireless communications capabilities of Spectrum One or Spectrum24 enable employees to access data instantaneously as they adjust hang tags, audit shelf merchandise or count inventory. And, by connecting the terminals to a portable printer, employees can generate new bar code labels for price markdowns or shelf label changes – right on the sales floor.

Features	Benefits
Rugged, compact design	Portable, single-handed laser scanning in demanding environments
35- or 46-key alphanumeric keypad and laser scanning capabilities	Flexibility of scanning or manual input–all integrated in one handy unit
Extended temperature range	Assures reliable operation in cold environments, even at temperatures as low as - 9° F/- 23° C
Easy-to-program software architecture	Customize applications to meet your exact needs
Large, backlit display	Easy to read, even in low light
Spectrum One or Spectrum24 radio frequency options	Real-time wireless communications with your host computer

Industrial Applications

The LDT 3805 and LRT 3800 Series terminals increase productivity at all levels of operations in warehouses, transportation and distribution centers, and manufacturing operations. Models with special scanning features adapt to your precise needs:

▸ Long Range model – is ideal in industrial settings as it can decode bar codes up to 5'/1.5 m away.

▸ High Visibility model – reads accurately in full sunlight outdoors (a plus in transportation applications) as well as brightly lighted indoor environments.

Peripherals and Accessories

Symbol's complete line of peripherals is designed to tailor the LDT 3805 and LRT 3800 Series Terminals to your specific needs.

▸ The CCM 3860 Charging Module, which simultaneously charges four internal and four external batteries.

▸ The CBM 3866 Cradle Base Module for charging four internal batteries.

▸ The CBU 3865 Single-Slot Cradle Base Unit, which charges one internal and one external battery.

▸ The Universal Battery Charger charges four batteries, offering deep cycle discharging for battery conditioning.

▸ The Printer Interface Module connects the terminal to Symbol's line of portable printers for "scan, print and apply" applications.

▸ The Holster attaches to the user's belt to protect and transport terminals safely and conveniently.

▸ For the LDT 3805, modem cradles and PC adapter options are available for data communications and transfer.

Symbol Technologies' LDT 3805 Laser Data and LRT 3800 Laser Radio Terminal Series: They go where the data is, so you can turn data into decisions. They're the kind of strategically important products you expect from Symbol Technologies, the leader in data management solutions with more than 5 million scanners and terminals and 15,000 wireless LANs installed worldwide.

For Communications Solutions Across the Spectrum, Look to Symbol Technologies

Symbol untethers your need for information by taking scanning wherever it has to go to capture data and communicate it to your computer. It's all wireless and it's all accomplished easily and reliably with either of Symbol's spread spectrum RF networks: Spectrum One® or Spectrum24.®

In 1991, Symbol was first to install spread spectrum technology. Today, Spectrum One is the RF network technology that has been proven at more than 15,000 sites worldwide. It requires no site license, delivers high performance for handling large amounts of data and offers interference immunity to ensure data security. What's more, a single Spectrum One radio frequency LAN will support hundreds of portable and fixed-station devices, and can be expanded or upgraded easily.

Spectrum24, Symbol's next-generation wireless LAN, is a frequency-hopping spread spectrum cellular network designed to operate within the 2.4 to 2.5 GHz bands around the world and to comply with the proposed IEEE 802.11 standard for wireless LANs. Spectrum24 offers ease of installation, high throughput, expandable capacity and superior interference immunity.

LDT 3805 Laser Data and LRT 3800 Laser Radio Terminal Series Specification Highlights

Physical and Environmental Characteristics

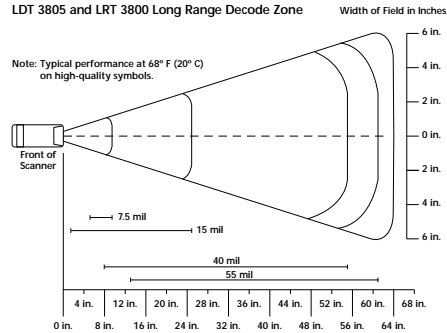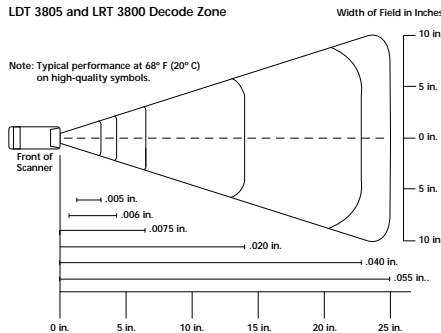|	
Dimensions:	7″ H x 3.3″ W x 8.4″ L/18.1 cm H x 8.4 cm W x 21.4 cm L
Weight:	1.43 lbs./.65 kg
Operating Temperature:	-9° to 104° F/-23° to 40° C
Storage Temperature:	-9° to 140° F/-23° to 60° C
Humidity:	95% relative humidity, noncondensing
Drop:	Unit functions normally after 4′/1.2 m drop to concrete
ESD:	15 kV electrostatic discharge to all surfaces without loss of data
Keyboard, Standard:	35 or 46 large, hard, alphanumeric keys
Keyboard, IBM:	3800/384X: 46 key, IBM 5250 or 3270 keypads and overlays
Display:	8-line by 20-character LCD, back light, reverse video, double-high and double-wide characters
Power:	Removable, rechargeable NiCad pack
Intrinsically Safe:	Class 1, Division 1, Group A, B, C, D

CAUTION
LASER LIGHT–
DO NOT STARE INTO BEAM
680nm LASER
1.0 MILLIWATT MAX. OUTPUT
CLASS II LASER PRODUCT

CE

Computer

CPU:	80C88 type @ 8 MHz
Operating System:	DOS
ROM:	128 KB EPROM (DOS, BIOS, Terminal Diagnostics)
RAM:	640 KB
Non-Volatile Memory:	3800/3805: 256 KB Standard 384X: additional 1 MB optional
Application Development:	Symbol Series 3000 Applications Development Kit

Peripherals & Accessories

Cradles:	Single slot and four-slot cradles available
Printers:	Supports extensive line of Symbol-approved printers, cables and accessories
4-Slot Battery Charger:	Recharges multiple 3800/3805/384X batteries
Battery Adapter:	Used with Universal Battery Charger

RF Communications

	3800	384X
Network:	Spectrum One®	Spectrum24®
Spreading Technique:	Direct sequence	Frequency hopping
Data Rate:	60.6 Kbps	1 Mbps
Antenna:	Internal	Internal, diversity
Range:	Open space: 1500′/454 m Typical: 500′/151 m	Open space: up to 1000′/303 m Typical: 180′ to 250′/54.5 to 76 m
Radio Channel Access Method:	CSMA/CA	CSMA/CA
Compliance:	FCC part 15 in U.S. only	FCC part 15 in U.S. only, ETSI 300.328 in Europe, RCD STD-33 in Japan
Ethernet Compatibility:	Via Network Control Unit	DIX Ethernet
Output Power:	250 mW	500 mW U.S.; 100 mW international
Frequency Range:	902 to 928 MHz	Country dependent, typically 2.4 to 2.5 GHz

LDT 3805 and LRT 3800 Decode Zone

Width of Field in Inches

Note: Typical performance at 68° F (20° C) on high-quality symbols.

Front of Scanner

.005 in.
.006 in.
.0075 in.
.020 in.
.040 in.
.055 in.

10 in. / 5 in. / 0 in. / 5 in. / 10 in.

0 in. / 5 in. / 10 in. / 15 in. / 20 in. / 25 in.

LDT 3805 and LRT 3800 Long Range Decode Zone

Width of Field in Inches

Note: Typical performance at 68° F (20° C) on high-quality symbols.

Front of Scanner

7.5 mil
15 mil
40 mil
55 mil

6 in. / 4 in. / 2 in. / 0 in. / 2 in. / 4 in. / 6 in.

4 in. / 12 in. / 20 in. / 28 in. / 36 in. / 44 in. / 52 in. / 60 in. / 68 in.
0 in. / 8 in. / 16 in. / 24 in. / 32 in. / 40 in. / 48 in. / 56 in. / 64 in.

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CERTIFIED BUSINESS PARTNER

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