

SOPHO Dterm

Business Terminals
Dterm IP for SOPHO 2000 IPS



Key features

- A full range of IP terminals designed to release the full power of the SOPHO 2000 IPS
- Maximizes productivity in any environment through a choice of 5 different models
- Convenient features only one touch away
- Attractive styling
- Provides the same features as the SOPHO Dterm Digital phones
- Additional Ethernet switch for PC*
- Supports Power over Ethernet
- Snap-in terminal adapters provide cost-effective added functionality*

* From Dterm IP 8D up

Maximizing productivity

Stepping beyond the 'phone set' concept into the realm of Desktop Management, the SOPHO Dterm IP desktop terminals provide all the users features and functionality of traditional SOPHO Dterm Digital phones, seamlessly integrated within a pure IP environment, anywhere on the network.

The SOPHO Dterm IP has been ergonomically designed for natural comfort and offers an array of menu-driven soft key functions and easy-access function keys. Together, these deliver power, versatility and programmability to all user stations, maximizing efficiency and productivity.

In fact, the entire desktop surface is designed for user productivity; promoting speed, service and performance to help your business to reach more profitable heights.

SOPHO 2000 IPS AND IPS DM SUPPORT

The SOPHO Dterm IP connects to the SOPHO 2000 IPS (Internet Protocol Server) communication platform and its distributed model counterpart the SOPHO IPS DM. Both support peer-to-peer IP telephony connectivity, in both the LAN and the WAN.

PHILIPS



LOWER COST OF OWNERSHIP

Your costs are reduced due to the convergence of voice and data on a single network. Integrated management reduces the need for separate moves, adds and changes. Moreover, you can log on to any phone, anywhere on the network and your profile is immediately available to you, eliminating the need for rewiring on the patch panel.

From Dterm IP 8D up, all SOPHO Dterm IP terminals have an integrated Ethernet switch with two connectors. This allows a PC to be connected and eliminates the need for an extra wall socket.

Choices for every user

The SOPHO Dterm IP terminal is an attractive addition to any business environment. From the 4-line model to the 32-line (display) model, standard intelligent features help raise the productivity of small businesses to large enterprises.

With five multiline models to choose from, users can enjoy customized service and performance.

DTERM IP 4D

The SOPHO Dterm IP 4D with display is a cost-effective and easy to use multi-line set, designed for the regular office worker.



- 4 programmable line keys for immediate line/feature access or speed dialling
- 2-colour LEDs immediately indicate call status
- 13 dedicated function keys for ease of operation including a help key for user instruction
- 4 soft keys
- Call/Message indicator lamp
- Volume control for greater user comfort
- Handsfree speakerphone operation adds convenience and productivity
- Standard modular connectors for interoperability
- Informative display with 3 lines and 24 characters per line
- Adjustable display contrast
- Built-in wall mount unit

DTERM IP 8D

The SOPHO Dterm IP 8D with display is an ideal solution for frequent phone users, such as middle management, sales staff and customer service operations.



- 8 programmable line keys for immediate line/feature access or speed dialling
- 2-colour LEDs immediately indicate call status
- 15 dedicated function keys for ease of operation including help key for user instruction
- 4 soft keys
- Call/Message indicator lamp
- Volume control for greater user comfort
- Handsfree speakerphone operation adds convenience and productivity
- Convenient built-in headset jack
- Standard modular connectors for interoperability
- Informative and tiltable display with 3 lines and 24 characters per line
- Adjustable display contrast
- Built-in wall mount unit
- Additional Ethernet switch for PC
- One slot for optional Terminal Adapter

DTERM IP 16D

The SOPHO Dterm IP 16D with display is an excellent solution for medium- to high-frequency phone users whose decisions are driven by information, such as management, professionals and secretaries.



- 16 programmable line keys for immediate line/feature access or speed dialling
- 2-colour LEDs immediately indicate call status
- 15 dedicated function keys for ease of operation including help key for user instruction
- 4 soft keys
- Call/Message indicator lamp
- Volume/contrast control for greater user comfort

- Handsfree speakerphone operation adds convenience and productivity
- Convenient built-in headset jack
- Standard modular connectors for interoperability
- Informative and adjustable display with 3 lines and 24 characters per line
- Built-in wall mount unit
- Additional Ethernet switch for PC
- One slot for optional Terminal Adapter

DTERM IP 16LD

The SOPHO Dterm IP 16LD offers all the functionality of the 16D plus the convenience of an extra display for the 16 programmable keys.



- No more handwritten/printed foils
- Function displayed by comprehensive icons
- Name/number display associated with the key

DTERM IP 32D

The SOPHO Dterm IP 32D with display is a reliable choice for multiple-line phone users. It is the ideal solution for high-call intensity users, such as: receptionists, customer service operations, large workgroups and executives.



- 24 programmable keys for immediate line/feature access or speed dialling
- 8 additional dedicated keys for speed dialling
- 2-colour LEDs immediately indicate call status
- 15 dedicated function keys for ease of operation including help key for user instruction
- 4 soft keys

- Call/Message indicator lamp
- Volume/contrast control for greater user comfort
- Handsfree speakerphone operation adds convenience and productivity
- Convenient built-in headset jack
- Standard modular connectors for interoperability
- Informative and adjustable display with 3 lines and 24 characters per line
- Built-in wall mount unit
- Additional Ethernet switch for PC
- One slot for optional Terminal Adapter

Terminal Adapters

PSTN SWITCH-OVER ADAPTER

The optional PSTN Switch-over Adapter offers a fallback to the public network when a user cannot make telephone calls with the IP phone in case of power failure or IP Network failure. The PSTN Switch-over Adapter allows a direct connection between the Dterm IP terminal and the public telephone network (PSTN). This allows the user to make and receive phone calls via an analogue PSTN line instead of the LAN.

ANCILLARY DEVICE ADAPTER

The optional Ancillary Device Adapter offers a direct connection to a tape recorder for logging/recording telephone calls.

IN-LINE POWER ADAPTER

The optional In-Line Power Adapter unit supports conversion of the proprietary NEC Discovery Protocol and Cisco Discovery Protocol to the 802.3af Power over Ethernet standard.

Technical data

DELIVERABLES

- Dterm IP phones are supplied with a directory card and Ethernet cable
- The SOPHO Dterm IP supports the following languages: Danish, Dutch, English, French, German, Italian, Portuguese (Brazilian), Spanish and Swedish.

NETWORK PARAMETERS

- Interface: 10/100 Base T, RJ45 multi-port switch*
- IP addressing: DHCP and static

* From Dterm IP 8D up

VOICE/QOS SUPPORT

- Audio algorithms
 - G.711 - 64 Kbps
 - G.723.1 - 5.3 or 6.3 Kbps
 - G.729A - 8 Kbps
- Echo cancellation
- Voice packet prioritisation:
 - IP Precedence or DiffServ
 - 802.1Q/p

POWER SUPPORT (USER CHOICE)

- External AC Adapter (24V 750mA)
- Power over Ethernet:
 - 802.3af standard
 - NEC proprietary via an In-Line Power Adapter
 - Cisco Discovery Protocol**

MANAGEMENT AND UTILITIES

- Software upgradable via FTP and TFTP

PHYSICAL CHARACTERISTICS

- Dterm IP 4D
 - size: 192 x 210 x 135 mm (wxdxh)
 - weight: 899 g
- Dterm IP 8D
 - size: 231 x 217 x 106 mm (wxdxh)
 - weight: 1150 g
- Dterm IP 16D
 - size: 231 x 217 x 106 mm (wxdxh)
 - weight: 1150 g
- Dterm IP 16LD
 - size: 231 x 243 x 106 mm (wxdxh)
 - weight: 1300 g
- Dterm IP 32D
 - size: 231 x 243 x 106 mm (wxdxh)
 - weight: 1300 g

ENVIRONMENTAL CONDITIONS

- Temperature:
 - rated 0° C to +40° C
 - transport -20° C to +60° C
- Humidity:
 - rated 10 to 90% RH
 - transport 5 to 90% RH

COMPLIANCE

- EMC
 - EN55022 Immunity
 - EN55024 Emission
 - EN61000 Powering
- Safety
 - EN60950-1

COLOUR

- Black/silver

** On Dterm IP 4D only when using In-Line Power Adapter.

Features

Keyboard features	Dterm IP 4D	Dterm IP 8D	Dterm IP 16D/16LD	Dterm IP 32D
Programmable keys* for line/feature access (with 2-colour LED) or for speed dialling	4	8	16	32**
Soft keys	4	4	4	4
Fixed function keys	13	15	15	15
Dynamic dial pad (automatic line seizure when dialling)	√	√	√	√
Last number redial (# of entries)	5	5	5	5
Dial by name	√	√	√	√
DTMF post-dial	√	√	√	√
Alphabet on keypad	√	√	√	√
Display features				
LCD	3x24	3x24	3x24	3x24
Adjustable LCD contrast	√	√	√	√
Tilttable display	-	√	√	√
Date and time display	√	√	√	√
Calling name & number display	√	√	√	√
Call/Message waiting LED	√	√	√	√
Extra LCD	-	-	LD version only	-
Audio features				
Listen-in	√	√	√	√
Hands-free	√	√	√	√
Loudspeaker volume control	√	√	√	√
Handset volume control	√	√	√	√
Microphone mute	√	√	√	√
Ringing tone selection/volume control	√	√	√	√
Headset operation/volume control	-	√	√	√
Functional features				
Private/system directory	√	√	√	√
Callers list (configurable up to # of entries)	19	19	19	19
Help key	√	√	√	√
User guidance via display	√	√	√	√
Security features				
Receive calls only	√	√	√	√
Direct call (hotline) only	√	√	√	√
Key-pad lock	√	√	√	√
Hardware				
Built-in wall mount***	√	√	√	√
Built-in headset jack	-	√	√	√
Adjustable base	√	√	√	√
Ethernet switch port	-	√	√	√
Terminal Adapters				
PSTN Switch-over Adapter	-	√	√	√
Ancillary Device Adapter	-	√	√	√
In-Line Power Adapter	√	√	√	√
<p>* One key is always reserved for monitoring the extension itself. ** Maximum 24 keys programmable as line/feature access key. *** When a Terminal Adapter is used, a separate wall mount unit is necessary for the 8D/16D/16LD/32D.</p>				



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