

## 48 Series<sup>+</sup> Premium-line Cordless Phone *with Membrane Keypad and Faceplate*



### **48 Series<sup>+</sup> Cordless Features:**

- **New Style of Cordless** – corded base unit with up to four (4) cordless handsets
- **Digital code transmission** - avoids mutual interference with other electronic equipments
- **Membrane Keypad and Faceplate** – smooth, water resistant, touch sensitive membrane dial pad
- **Unpowered Functionality** – Base unit can still make and receive calls without external power
- **Rapid Handset Recharging**
- **Handset Warning Notifications** – for low battery and for excessive distance from base unit
- **Magnetic Hook-Switch™** - No hook, Handset secured by magnet for smooth design and easy cleaning
- **Programmable Guest Service Keys** - Permanent one-touch memory keys
- **Easy Message Retrieval™** - Message Waiting Light, button and Ringer Indicator
- **Dual-Dial Keypads™** - Dialling keypad also on the handset for ultimate guest convenience
- **Speakerphone** (TSD models only) and Hold button with indicators

# Product Datasheet



- **FacePlate Plus™** - full length faceplate and placard faceplate
- **Privacy Guard Redial™** - Last number dialled disappears after a defined time
- **SmartTray™** - stores the handset cord tidily and makes for easier cleaning
- **Auto-Connect™** - Resets the phone to receive incoming calls even when dislodged from the cradle
- **Express Programming** - Supports Remote Programming via Bittell's Express Programming devices
- **SIP (IP) Models** – Full compliance with SIP Protocols and Power-over-Ethernet (PoE)
- Two line auto-select and three-way conference (Two Line phones only)
- Flexible Data Port
- Redial, Flash, Hold buttons both base and handset
- Ringer Volume HI/LOW adjustable for base and handset(s)
- Speakerphone and Handset volume three level adjustable, and stores the adjustment
- Handset with HAC
- Desk and Wall Mountable



## Available Models:

Analogue (TDM) Cordless Phones		
HWD48C++TSD	Single Line Speakerphone Base Unit with Membrane Keypad / Faceplate, additional Handset Keypad and Cordless 1.8/2.4/DECT 6.0 with Flash, Redial, Hold, and Mute. Includes one cordless handset and charging dock.	
	• 5 Guest Service Keys	HA48C++TSD-5S
	• 10 Guest Service Keys	HA48C++TSD-10S
HWD48C++TSD-T	Two Line Speakerphone Base Unit with Membrane Keypad / Faceplate, additional Handset Keypad and Cordless 1.8/2.4/DECT 6.0 with Flash, Redial, Hold, and Mute. Includes one cordless handset and charging dock.	
	• 5 Guest Service Keys	HA48C++TSD-T5
	• 10 Guest Service Keys	HA48C++TSD-T10

SIP (IP) Cordless Phones		
HWD48C++TSD SIP	Single Line SIP Speakerphone Base Unit with Membrane Keypad / Faceplate, additional Handset Keypad and Cordless 1.8/2.4/DECT 6.0 with Flash, Redial, Hold, and Mute. Includes one cordless handset and charging dock. PoE.	
	• 5 Guest Service Keys	HWD48C++TSD-5S SIP
	• 10 Guest Service Keys	HWD48C++TSD-10S SIP



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## Cordless Specifications:

Radio Frequency:	2.4GHz DECT as standard - 1.8GHz, 1.9GHz and DECT6.0 optional
Transmission Method:	Frequency Hopping Spread Spectrum (FHSS)
Modulation Method:	GFSK
Network Sharing:	Time Division Multiple Access (TDMA)
Average Transmission Power:	4mW
Standby Time (PP):	7 Days
Talk Time (PP):	10 hours
Handset Range:	100m from base unit
Out Power:	22dBm
Receiver Sensitivity:	-85dBm
NTP Power:	20 +4/ -2 dBm
Power:	9V DC Adapter
Battery:	NI-MH 3.6V 700mA
Talk on Current:	40~50 mA (PP)
Charge Current:	140~150 mA (PP)
Operating Temperature:	-10°C ~ 40°C
Operating Humidity:	10% ~ 95%

## Base Unit Specifications:

Phone Dimensions:	22cm×16.9×9.7cm
Handset cord:	3.66m (Length)
Line cord:	2.0m(Length)
Weight:	1160g
Color:	Ivory / Black
Handset:	Hearing Aid Compatible (HAC) Handset
Dial Character:	Standard 12 group (DTMF)
Flash time:	80ms, 100ms, 300ms, 600ms optional, standard is 600ms
Message Waiting Light Voltage:	Standard 90~150V DC Customized various MWL card compatible with PBX
Operating Voltage:	24 ~ 60V DC
Quality Control:	ISO9001, ISO14001
Quality Approval:	CCC, FCC, CE, RoHS (FCC Part 15 & 68 compliant)
One-Touch Memory Key Programming:	Manually Store(Yes) Hand-held Cloner R.P.(Yes) Master Cloner on line(Yes) SIP models: Software Programming
Box Dimensions:	50×44.5×27(cm)
Package (set/carton):	10set/Carton

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