

The **Teo Fir Essential** is an enhanced mainstream workhorse IP phone for high-velocity business users who need reliability to manage their workload. It is ideal for high-volume users within an enterprise.

- 3.5-inch color screen
- Up to 30 DSS key entries
- 16-line; 4-line keys
- HD Audio with Opus Support
- Built-in Bluetooth
- PoE and GigE





Fir Essential is an enterprise-level 2-screen IP phone. With all the necessary VoIP features and other extended features like EHS headset and WiFi dongle, it provides a high-quality, convenient user experience at an affordable price.

## HIGHLIGHTS

- 16 SIP lines, 3-way conference, SIP hotspot
- 4 Line keys on the main display
- HD audio on speakerphone and handset
- 1x3.5" main color display, 1x2.4" side color displays for DSS keys
- Built-in Bluetooth for connecting headset
- Support WiFi connectivity (Via WiFi dongle)
- Support EHS wireless headset
- Up to 30 DSS keys (6 2-colored physical keys)
- Dual Gigabit ports, integrated PoE
- Stand with 2 adjustable angles of 45 and 50 degrees
- Compatible with major platforms: Asterisk, Broadsoft, 3CX, Metaswitch, Elastix, Avaya etc.

## GENERAL

- 16 SIP lines
- HD Voice
- PoE Enabled
- 2 LCDs (Main + DSS)
- Handset / Hands-free / Headset mode
- Intelligent DSS Keys
- Desktop Stand / Wall-mountable
- Optional External Power Supply

## PHONE FUNCTIONS

- Local Phonebook (2000 entries)
- Remote Phonebook (XML/LDAP, 2000 entries)
- Call logs (In/Out/Missed, 1000 entries)
- Black/White List Call Filter
- Screensaver
- Voice Message Waiting Indication (VMWI)
- Programmable DSS/Soft keys
- Network Time Synchronization
- Support WiFi Dongle
- Support Plantronics wireless headset (Through Plantronics APD-80 EHS Cable)
- Support Jabra wireless headset (Through Fanvil EHS20 EHS Cable)
- Support Recording (Through Flash Drive or Server)
- Action URL / Active URI
- uaCSTA
- Built-in Bluetooth 2.1: Support Bluetooth headset

## CALL FUNCTIONS

- Call out / Answer / Reject
- Mute / Unmute (Microphone)
- Call Hold / Resume
- Call Waiting
- Intercom
- Caller ID Display
- Speed Dial
- Anonymous Call (Hide Caller ID)
- Call Forward (Always/Busy/No Answer)
- Call Transfer (Attended/Unattended)
- Call Parking/Pick-up (Depending on server)
- Redial
- Do-Not-Disturb
- Auto-Answering
- Voice Message (With server)
- 3-way Conference
- Hot Line
- Hot desking

<b>AUDIO</b>	<ul style="list-style-type: none"> <li>• HD Voice Microphone/Speaker (Handset/ Hand-free, 0 ~ 7KHz Frequency Response)</li> <li>• HAC handset</li> <li>• Wideband ADC/DAC 16KHz Sampling</li> <li>• Narrowband Codec: G.711a/u, G.723.1, G.726-32K, G.729AB, AMR, iLBC</li> <li>• Wideband Codec: G.722, AMR-WB, Opus</li> </ul>	<ul style="list-style-type: none"> <li>• Full-duplex Acoustic Echo Cancellor (AEC)</li> <li>• Voice Activity Detection (VAD) / Comfort Noise Generation (CNG) / Background Noise Estimation (BNE) / Noise Reduction (NR)</li> <li>• Packet Loss Concealment (PLC)</li> <li>• Dynamic Adaptive Jitter Buffer</li> <li>• DTMF: In-band, Out-of-Band – DTMF-Relay (RFC2833) / SIP INFO</li> </ul>
<b>NETWORK</b>	<ul style="list-style-type: none"> <li>• Physical: 10/100/1000 Mbps Ethernet, dual bridged port for PC bypass</li> <li>• IP Mode: IPv4 / IPv6 / IPv4 &amp; IPv6</li> <li>• IP Configuration: Static IP / DHCP / PPoE</li> <li>• Network Access Control: 802.1x</li> </ul>	<ul style="list-style-type: none"> <li>• VPN: L2TP / OpenVPN</li> <li>• VLAN</li> <li>• LLDP</li> <li>• QoS</li> <li>• RTCP-XR (RFC3611), VQ-RTCPXR (RFC6035)</li> </ul>
<b>PROTOCOLS</b>	<ul style="list-style-type: none"> <li>• SIP2.0 over UDP/TCP/TLS</li> <li>• RTP/RTCP/SRTP</li> <li>• STUN</li> <li>• DHCP</li> <li>• IPv6</li> <li>• LLDP</li> <li>• PPoE</li> <li>• 802.1x</li> <li>• L2TP</li> <li>• OpenVPN</li> <li>• SNTP</li> <li>• FTP/TFTP</li> <li>• HTTP/HTTPS</li> <li>• TR-069</li> </ul>	
<b>DEPLOYMENT &amp; MANAGEMENT</b>	<ul style="list-style-type: none"> <li>• Auto-Provisioning via FTP/TFTP/HTTP/ HTTPS/DHCP OPT66/SIP PNP/TR-069</li> <li>• Web Management Portal</li> <li>• Web-based Packet Dump</li> </ul>	<ul style="list-style-type: none"> <li>• Configuration Export / Import</li> <li>• Phonebook Import / Export</li> <li>• Firmware Upgrade</li> <li>• Syslog</li> </ul>
<b>PHYSICAL SPECIFICATIONS</b>	<ul style="list-style-type: none"> <li>• Main LCD x1: 3.5-inch (480x320) Color Screen</li> <li>• DSS Key-mapping LCD x1: 2.4-inch (240x320) Color Screen</li> <li>• Keypad: 42 keys, including <ul style="list-style-type: none"> <li>- 4 Line keys (With LED Indicator)</li> <li>- 4 Soft-keys</li> <li>- 6 Function keys (Hold, Call forward, MWI, Headset, Redial)</li> <li>- 4 Navigation keys</li> <li>- 1 OK key</li> <li>- 12 Standard Phone Digits keys</li> <li>- 3 Volume Control keys (Up/Down/Mute Mic)</li> <li>- 6 DSS keys (With LED Indicator)</li> <li>- 1 Page-Switch (PS) key (With LED Indicator)</li> <li>- 1 Hands-free key (With LED Indicator)</li> </ul> </li> <li>• HD Handset (RJ9) x1</li> <li>• Standard RJ9 Handset Wire x1</li> <li>• 1.5M CAT5 Ethernet Cable x1</li> <li>• Back Rack x1</li> <li>• Status Indicator light x1 (Red)</li> <li>• RJ9 Port x2: Handset x1, Headset x1</li> </ul>	<ul style="list-style-type: none"> <li>• RJ45 Port x2: Network x1, PC x1 (Bridged to Network)</li> <li>• USB2.0 Port x1: Standard A, Connect with WiFi USB dongle or Flash Driver</li> <li>• Safety Keyhole x1</li> <li>• DC Power Input: 5V/2A</li> <li>• Power Consumption (PoE): 1.7W~10.46W</li> <li>• Power Consumption (Adapter): 1.38W~9.13W</li> <li>• Working Temperature: 0~45°C</li> <li>• Working Humidity: 10~95%</li> <li>• Installation: <ul style="list-style-type: none"> <li>- Desktop Stand</li> <li>- Wall-mounted (w/additional mounting parts)</li> </ul> </li> <li>• Color: Black</li> <li>• Device Dimensions: <ul style="list-style-type: none"> <li>- Desktop Stand (Angle 1): 214x188.6x181.1 mm</li> <li>- Desktop Stand (Angle 2): 214x180.5x190.1 mm</li> <li>- Wall-mounted: 214x119.4x219.1 mm</li> </ul> </li> <li>• Gift Box Dimensions: 315x228x84 mm</li> <li>• Outer CTN Dimensions: 476x440x335 mm (10 PCS)</li> </ul>