

# SmartLink / SmartWare / Trinity / SmartMedia Comparison Tool

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	SmartLink (SmartLink 4022 and M-ATA)	SmartWare (SmartNode 4000/5000 Series)	Trinity (SmartNode 4000/5000 Series)	SmartMedia (SmartNode 10000 Series)
<b>VoIP Features</b>				
<b>Basic Call Features</b>				
AOC (Advice of charge)	N/A	✓	✓	N/A
Call-Hold	✓	✓	✓	N/A
Call-Routing	N/A	✓	✓	✓ (Requires Ruby Scripting)
Call-Transfer	✓	✓	✓	Partial (REFER [relay/rerouting], ISDN AT&T 4ESS/5ESS Toll free transfer connect)
Call-Waiting	✓	✓	✓	N/A
Dejitter Buffer	✓	✓	✓	✓
Echo Cancellation	✓	✓	✓	✓ (128msec Universal)
H.248	N/A	N/A	N/A	✓
Local 3 Party Conference	✓	N/A	Roadmap (will be available on new HW only)	N/A
MGCP	✓	N/A	N/A	N/A
NAT Traversal	✓	✓	✓	✓
SIP Registrar	N/A	✓	✓	N/A
SIP Registree	✓	✓	✓	✓
SIP Softswitch Failover	N/A	✓	✓	✓
STUN	✓	N/A	N/A	N/A
<b>Routing Read/Write Accessible Parameters</b>				
SIP TLS and SRTP (RFC3711; RFC4568)	N/A	N/A	✓	N/A
SIP: Any Headers (customizable SIP headers)	N/A	N/A	N/A	✓ (insertion only for outgoing legs)
SIP: Called (IP)	N/A	✓	✓	✓
SIP: Called (rn)	N/A	N/A	N/A	✓
SIP: Called (user-info)	N/A	N/A	N/A	✓
SIP: Called Name (subscriber name)	N/A	✓	✓	✓
SIP: Calling (cpc)	N/A	N/A	N/A	✓
SIP: Calling (IP)	N/A	✓	✓	✓
SIP: Calling (name-addr)	N/A	✓	✓	✓
SIP: Calling (oli)	N/A	✓	✓	✓
SIP: Calling (user-info)	N/A	N/A	N/A	✓
SIP: Calling Redirect Reason	N/A	✓	✓	✓
SIP: Diversion (original call number)	N/A	N/A	N/A	✓
SIP: Diversion (redirecting)	N/A	✓	✓	✓

SIP: p-asserted-identity (name-addr)	N/A	✓	✓	✓
SIP: p-asserted-identity (user-info)	N/A	✓	✓	✓
SIP: Redirecting Number IE (redirecting)	N/A	✓	✓	✓
SIP: Request URI	N/A	✓	✓	✓
SIP: Request URI (rn)	N/A	✓	✓	✓
<b>Signaling Type</b>				
H.323 v4	N/A	✓	Roadmap	External H.323 (Converter box)
SIGTRAN	N/A	N/A	N/A	✓ (IUA, M2UA, M2PA, M3UA)
SIP v2	✓	✓	✓	✓
<b>SIP Related Compliance</b>				
AoR	N/A	N/A	N/A	✓
RFC2327 SDP	✓	✓	✓	✓
RFC2833 (DTMF Relay)	✓	✓	✓	✓
RFC2976 (SIP INFO Messages)	✓ (DTMF Tones)	✓	✓	✓ (DTMF Tones)
RFC3261 (SIP)	✓	✓	✓	✓
RFC3262 (PRACK)	N/A	✓	✓	✓
RFC3264	✓	✓	✓	✓ ('indicating' capabilities not supported)
RFC3265 (SIP Notify Messages)	N/A	✓	✓	N/A
RFC3311 (SIP Update Method)	N/A	✓	✓	✓ (For session timer refresh)
RFC3323 (P-Header)	N/A	✓	✓	✓
RFC3325 (A-Header)	N/A	✓	✓	✓ (No Preferred-Identity)
RFC3372 (SIP-T, SS7 to SIP)	N/A	N/A	N/A	✓ (implemented SIP-I and as a result met RFC Standards)
RFC3398 (SIP to ISDN) (ISUP)	N/A	N/A	N/A	✓
RFC3515 (Refer Method)	N/A	✓	✓	✓
RFC3581 (rport)	N/A	✓	✓	✓
RFC3665 SIP Basic Call Flow	✓	✓	✓	✓
RFC3666 PSTN Call Flow	✓	✓	✓	✓
RFC3842 (MWI)	✓	✓	✓	N/A
RFC3891 (Replaces Header)	N/A	✓	✓	✓
RFC3892 (Referred-By Mechanism)	N/A	✓	✓	N/A
RFC4028 (Session Timers in the SIP)	N/A	✓	✓	✓
RFC4240 (Media Mixing Server)	N/A	✓	✓	N/A
RFC4694 (LNP for tel URI)	N/A	N/A	N/A	✓ (For rn/npdi Relay to SS7 only)
RFC5806 (SIP Diversion header)	N/A	✓	✓	✓ (Unconditional Forward Scenario)
SIP header Tunneling	N/A	N/A	✓	N/A
SIP Overlap Dialing	N/A	✓	✓	N/A
SIP-I (SS7 to SIP)	N/A	N/A	N/A	✓
<b>Voice Codec</b>				
AMR	N/A	N/A	N/A	✓
EVRC	N/A	N/A	N/A	✓

G.711	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (Universal Channel)
G.711 Bypass	<input checked="" type="checkbox"/> (Not Modem)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (Auto-switch to Modem Passthrough)
G.722.2 (AMR-WB)	N/A	N/A	N/A	<input checked="" type="checkbox"/>
G.723	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (Universal Channel)
G.726	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (Universal Channel)
G.728	N/A	N/A	N/A	<input checked="" type="checkbox"/>
G.729AB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (Universal Channel)
G.729EG	N/A	N/A	N/A	<input checked="" type="checkbox"/>
GSM-EFR	N/A	N/A	N/A	<input checked="" type="checkbox"/>
GSM-FR	N/A	N/A	N/A	<input checked="" type="checkbox"/>
GSM-HR	N/A	N/A	N/A	<input checked="" type="checkbox"/>
QCELP	N/A	N/A	N/A	<input checked="" type="checkbox"/>
RFC4040 (data passthrough)	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T.38 V.17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (Universal Channel)
T.38 V.34	N/A	<input checked="" type="checkbox"/> (G711 bypass)	<input checked="" type="checkbox"/> (G711 bypass)	<input checked="" type="checkbox"/>
<b>TDM</b>				
<b>Call Routing Functions</b>				
List-driven longest-prefix match routing (NPANXX)	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Regex routing	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Scripting routing	N/A	N/A	N/A	<input checked="" type="checkbox"/>
<b>Routing Read/Write Accessible Parameters</b>				
ISDN: Called Name (subscriber name)	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISDN: Called Number Plan	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISDN: Called Party Number IE	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISDN: Called Type of Number	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISDN: Calling Name (subscriber name)	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISDN: Calling Number Plan	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISDN: Calling Party Number IE	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISDN: Calling Redirect Reason	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISDN: Calling Type of Number	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISDN: Display IE	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISDN: ITC (Bearer Capability)	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
ISDN: Origin line information (5ESS only)	N/A	N/A	N/A	<input checked="" type="checkbox"/>
ISDN: Redirecting number IE (original call number)	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISDN: Redirecting number IE (redirecting)	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISDN: UUI Signlaing pass trough	N/A	<input checked="" type="checkbox"/>	Roadmap	N/A
Other: Date	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Other: Day of week	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Other: Time	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Outgoing Trunk Group/NAP	N/A	N/A	N/A	<input checked="" type="checkbox"/>

R2CAS: Call Party Category	N/A	✓	Roadmap	✓
R2CAS: Called Number	N/A	✓	Roadmap	✓
R2CAS: Calling Number	N/A	✓	Roadmap	✓
SS7: Called Party Number IE	N/A	N/A	N/A	✓
SS7: Calling Party Number IE	N/A	N/A	N/A	✓
SS7: Charge Number IE (ANSI)	N/A	N/A	N/A	✓
SS7: Display Information IE	N/A	N/A	N/A	✓
SS7: Generic Address Parameter IE (ANSI)	N/A	N/A	N/A	✓
SS7: Origin Line Information IE (ANSI)	N/A	N/A	N/A	✓
SS7: Redirecting Number IE	N/A	N/A	N/A	✓
SS7: Redirection Information IE	N/A	N/A	N/A	✓
<b>Signaling</b>				
4ESS and 5ESS	N/A	N/A	N/A	✓
CC-FXO	N/A	✓	Roadmap	N/A
CC-FXS	N/A	✓	Roadmap	N/A
DMS-100	N/A	✓	Roadmap	✓
DMS-250	N/A	N/A	N/A	✓
DSS1	N/A	✓	✓	✓
FXS: E-911 CAMA	N/A	✓	Roadmap	N/A
FXS: MWI support - Line reversal & FSK	N/A	✓	Roadmap	N/A
NI-2	N/A	✓	✓	✓
NTT INSnetI500	N/A	N/A	N/A	✓
Q.SIG	N/A	✓	✓	N/A
R2	N/A	✓	Roadmap	✓ (Scripteable Variants). RJ/TE Only
RBS	N/A	✓	Roadmap	N/A (Hardware Supported)
SS7	N/A	N/A	N/A	✓
V5.2	N/A	N/A	N/A	N/A
<b>System Features</b>				
<b>System</b>				
Auto Daylight Saving Function	N/A	✓	✓	N/A
Separate Config Domain	N/A	N/A	✓	N/A
<b>IP</b>				
<b>Data Connectivity/IP</b>				
3G/4G USB Cellular Modem Support (licensed feature)	N/A	N/A	✓	N/A
ACL	N/A	✓	✓	N/A
DHCP server/DHCP client	✓	✓	✓	✓ (DHCP Client)
DownStream QoS	N/A	✓	Roadmap	N/A
Downstream QoS	N/A	✓	✓	N/A
DSL	N/A	✓	Roadmap	N/A
Ethernet Bridging	N/A	N/A	✓	N/A
Frame Relay	N/A	✓	Roadmap	N/A
IP Link Supervision	N/A	✓	Roadmap	N/A
IP Router	✓	✓	✓	N/A

IP Tables	N/A	N/A	✓	N/A
IPv6	N/A	N/A	✓	Roadmap
Policy Based Routing	N/A	✓	✓	N/A
Secure Zero Touch Provisioning (HTTPS)	N/A	N/A	✓	N/A
Standard QoS	N/A	✓	✓	N/A
Stateful Firewall	N/A	N/A	✓	N/A
Syslog Client	✓	✓	✓	N/A
V.35	N/A	✓	Roadmap	N/A
VLAN support (802.1p/Q)	N/A	✓	✓	N/A
VPN Capabilities	N/A	✓	Roadmap	N/A
X.21	N/A	✓	Roadmap	N/A
Zero Touch Provisioning	N/A	✓	✓	N/A
<b>IP Related RFC Compliance</b>				
OpenVPN	N/A	N/A	✓	N/A
RFC1035 (DNS)	✓	✓	✓	✓
RFC1058 (RIP)	✓	✓	Roadmap	N/A
RFC1349 (ToS)	N/A	✓	✓	✓
RFC1483 (MPE ATM)	N/A	✓	Roadmap	N/A
RFC1490 (MPI over FrameRelay)	N/A	✓	Roadmap	N/A
RFC1631 (NAT)	✓	✓	✓	N/A
RFC1661 (PPP)	✓	✓	✓	N/A
RFC2030 (SNTP)	✓	✓	✓	✓ (Control host)
RFC2132 (DHCP Server)	✓	✓	✓	N/A (Atom supports but not used in such a way)
RFC2401 (IPsec)	N/A	✓	Roadmap	✓ (Atom host only. Hardware Supported on VoIP)
RFC2453 (RIPv2)	✓	✓	Roadmap	N/A
RFC2571 (SNMP)	✓	✓	✓	✓
RFC2865 (RADIUS)	N/A	✓	Roadmap	✓
RFC3022 (NAT)	✓	✓	✓	N/A
RFC3768 (VRRP)	N/A	✓	Roadmap	N/A
RFC4004 (TACACS+)	N/A	N/A	✓	N/A
RFC4251 (SSH)	N/A	✓	✓	✓ (Control host)
RFC4252 (SSH)	N/A	✓	✓	✓ (Control host)
RFC4253 (SSH)	N/A	✓	✓	✓ (Control host)
RFC4254 (SSH)	N/A	✓	✓	✓ (Control host)
RFC791 (IP)	✓	✓	✓	✓
RFC792 (ICMP)	✓	✓	✓	✓

### Product Lines

- > Voice over IP (VoIP) Gateways
- > Ethernet Extenders
- > RAS & DSLAMs
- > Balancing & Bonding Wireless Routers
- > DSL IAD, E1 NTUs & WAN

### Library

- > eNewsletters
- > Press Room
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