



THAICOM Services



Product Marketing THAICOM and Video Service Dept.

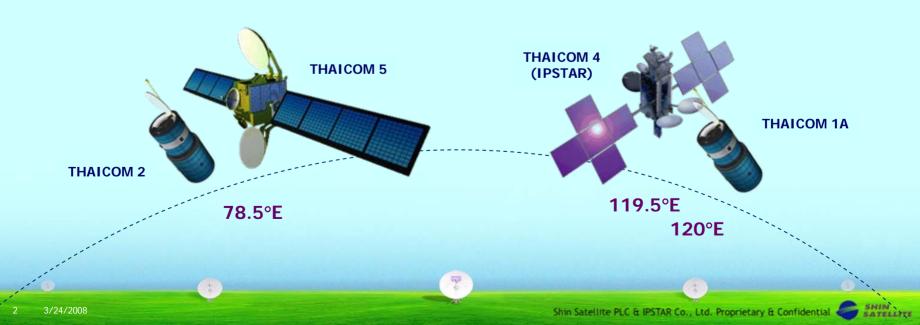








- THAICOM Product Update:
 - THAICOM Facts
 - THAICOM Video Broadcasting Services
 - THAICOM Teleport & DTH Center
 - THAICOM ProTrunk Service







- Satellite Fleet
 - THAICOM 1A @ 120°E
 - THAICOM 2 @ 78.5°E
 - THAICOM 4 (IPSTAR)
 - THAICOM 5

@ 119.5°E @ 78.5°E

Key Features

- 78.5°E is a South Asia's and Indochina's prime orbital slot for broadcasting business carrying more than 200 satellite TV channels
- Choices of Ku-Band, C-Band Regional and C-Band Global
- Service Coverage
 - More than 120 countries in Asia, Australia, Africa and Europe





THAICOM 1A, 2 and 5 Satellite Description

	THAICOM-1A	THAICOM-2	THAICOM-5
Manufacturer	Boeing Company, USA	Boeing Company, USA	Alcatel Alenia Space, France
Satellite Model	Boeing 376	Boeing 376	Spacebus-3000A
Lifetime	15 Years	15 Years	Minimum 12 Years
Stabilization	Dual-spin stabilized	Dual-spin stabilized	3-axis stabilized
Orbital Position	120°E	78.5°E	78.5°E
Transponders	12 C-Band (36 MHz) 3 Ku-Band (54 MHz)	10 C-Band (36 MHz) 3 Ku-Band (54 MHz)	25 C-Band (36 MHz) 12 Ku-Band (36 MHz) 2 Ku-Band (54 MHz)
Launch Date	December 17, 1993	October 7, 1994	May 28, 2006

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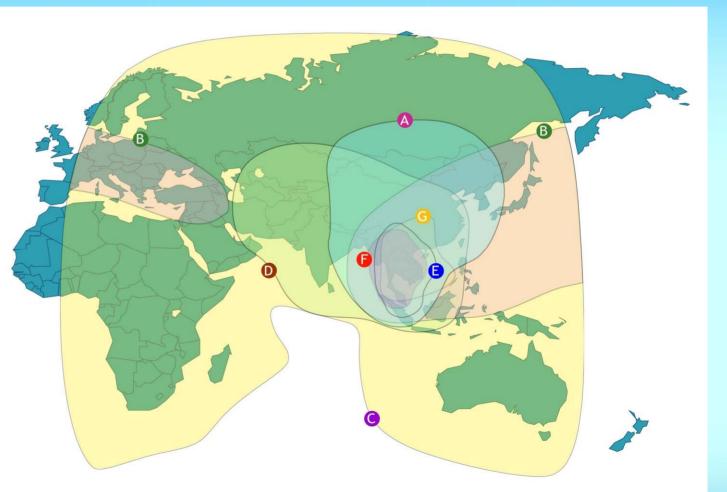




THAICOM 1A, 2 and 5 Satellite Footprints

THAICOM 1A, 2 and 5 Service Footprints

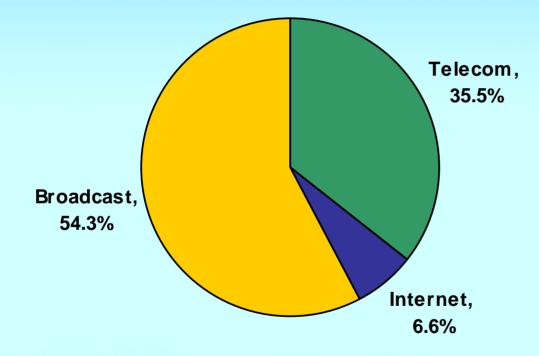
- A THAICOM-1A C-Band Regional Beam
- B THAICOM-2 C-Band Regional Beam
- C THAICOM-5 C-Band Global Beam
- THAICOM-5 C-Band Regional Beam
- E THAICOM-1A & 2 Ku-Band Thailand Beam
- F THAICOM-5 Ku-Band Thailand Beam
- G THAICOM-5 Ku-Band Indochina Beam





Existing THAICOM Customers by Application

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THAICOM 1A, 2 & 5

- Broadcast
 - C-Band TV Broadcasting
 - Ku-Band TV Broadcasting
 - Business/Educational TV
- Telecom
 - Domestic VSAT
 - International VSAT
 - Rural Telephone
 - Cellular Trunking
- Internet
 - Internet via Satellite



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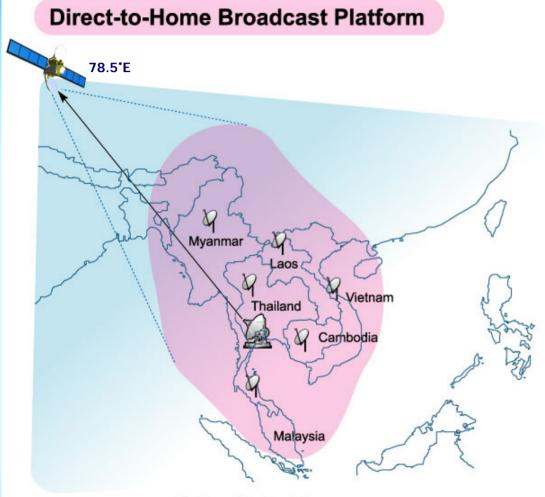
THAICOM Video Broadcasting Services







Existing Video Channels on THAICOM 78.5°E



Thaicom Ku-Band Beam

Key Features:

Powerful, effective and established
 DTH platform for the region

- High performance Ku-Band EIRP over Thailand and Indochina

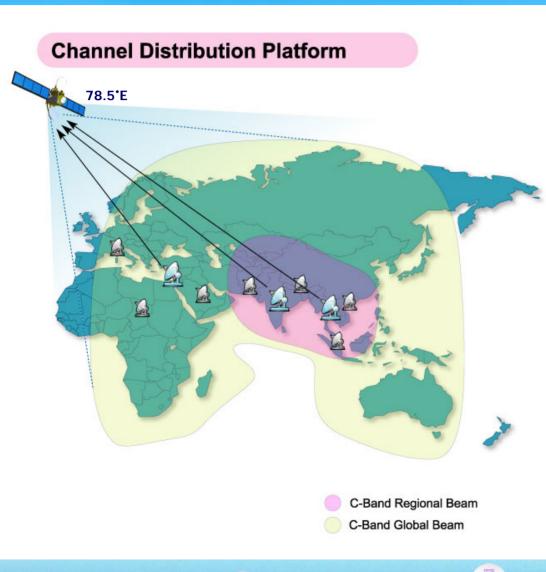
Platform	7 Full Ku-Band TP MCPC Platforms	
U/L Station	THAICOM Teleport and DTH Center, Thailand	
Beam	Ku-Band Beam	
No. of Channels	80+ Channels	
Channel Type	Thai and Western channels	



I-TIUS'06



Existing Video Channels on THAICOM 78.5°E



Key Features

- Feed links from Europe to the Middle East, South Asia, Southeast Asia and Australia

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- Immediate access to over 70,000 cable headends in South Asia (over 1 billion population)

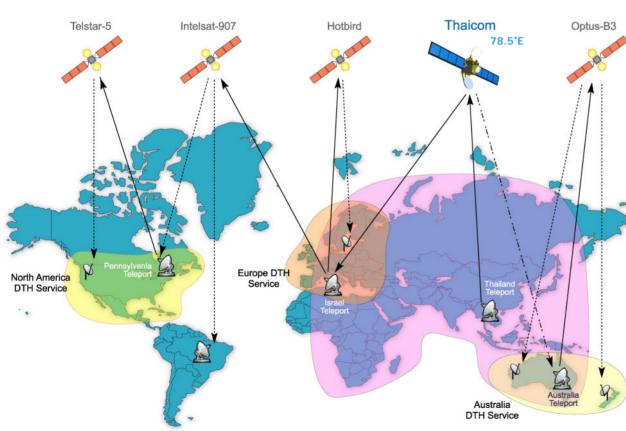
- Powerful C-Band Regional Beam EIRP over South Asia and Indochina

Platform	9.5 C-Band TP MCPC Platforms
U/L Station	 THAICOM Teleport and DTH Center, Thailand Other Partners' Sites
Beam	C-Band Regional or Global Beam
No. of Channels	70+ Channels (*exclude those who uplinked by themselves)
Channel Type	 Thai & Indochina: 20+ chs South Asia: 40+ chs Others: 10 chs



Thaicom Global Television Platform

Existing Video Channels on THAICOM 78.5°E



Key Features:

- One-stop shopping solution

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- Effective for reaching ethnic communities overseas
- Ideal for national, ethnic and niche markets programming such as religious or shopping channels, that demand a global audience
- Receivable by 70 million satellite households in North America, Europe and Australia

SATELLITE

- Covering more than 150 * Satellites subject to change Countries in 6 continents





Customers' Key Benefits

- Strategic Orbital Slot: 78.5°E
 - 200+ channels with downlinking to cable headends, satellite stations and viewers' homes
 - Prime channels catering for the South Asia and Indochina markets
- Long-term Satellite Player
 - One of the most established and experienced satellite operator in Asia, since 1991
 - Pioneering and innovative
 - Follow-on satellite systems to ensure long term viability
- One-Stop Shopping Solution
 - End-to-end service delivery including compression, transmission and space capacity
 - Additional service such as downlink, tape play, conditional access, etc.
 - Turnaround and connectivity with other satellites for global coverage
 - Consultancy services for teleport design and installation
 - Assistance for operator's staff accommodation, visas and work permits
- Best Value for your Money
 - Flexibility to meet customers' requirement
 - Variety of service packages







THAICOM Teleport and DTH Center









THAICOM Teleport and DTH Center

- Located at "Lad Loom Kaew, Pathumthani, Thailand"
- 25,000 square meter area
- Operated since 1996
- The World's first ISO 9000 certified operator for satellite and teleport services
- Top-three World Teleport Association finalist for the "2006 Corporate Teleport Operator of the Year Award"
- One back-up station (*THAICOM Satellite Control Station*) at Nonthaburi, Thailand







THAICOM Teleport and DTH Center World Class Facilities



Real Property







THAICOM Teleport and DTH Center World Class Facilities





Real Property







THAICOM Teleport and DTH Center

- Comprehensive network operations and services
- Teleport Services
 - Uplink/Downlink Services
 - Digital Compression Service
 - Turnaround Service
 - Automatic/Manual Tape Play Service
 - Studio Service
 - Conditional Access Service
 - Satellite News Gathering Service
 - Fiber Optic Links
 - Microwave Links
 - Satellite System Integration







3x500 KVA UPS





THAICOM Video Broadcasting Platforms

- THAICOM Teleport and DTH Center is operating digital MCPC platforms on both Ku-Band and C-Band beams at our 78.5°E strategic orbital slot
 - 7 Ku-Band MPEG-2/DVB-S MCPC platforms
 - 5 C-Band MPEG-2/DVB-S MCPC platforms
- Total ~150 satellite TV channels
- Broadcast quality: 3-8 Mbps per channel







THAICOM ProTrunk Service





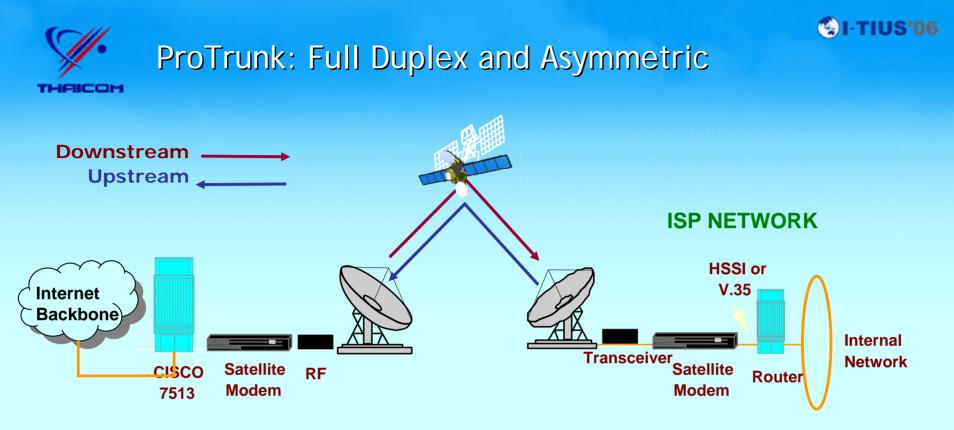




ProTrunk Service (Internet via Satellite)

- High speed Internet Backbone Connectivity
- Service via THAICOM Satellites
- Network designed for ISPs/Carriers/IAPs
- Speed range from 64 Kbps till 43 Mbps
- Direct to roof-top solution
- Full Duplex(43/43Mbps), Asymmetric(8/2Mbps), Simplex(8Mbps)





Two-way via Satellite

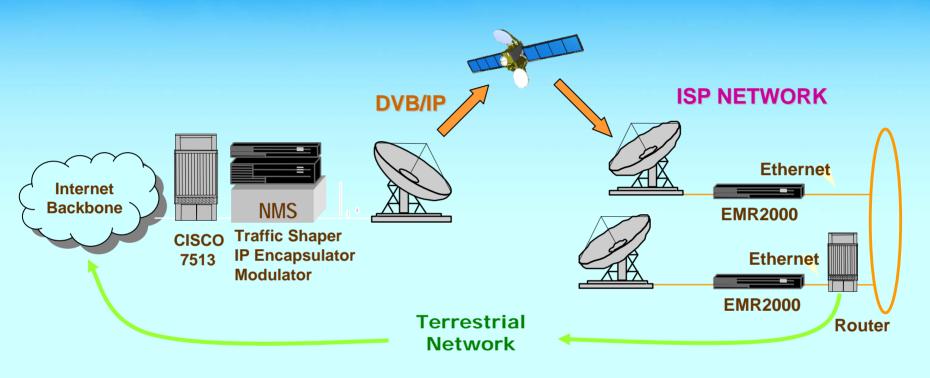
- Full Duplex : Downstream = Upstream
- > Asymmetric 4:1 :Downstream higher than upstream
 - (2 Mbps/512 Kbps, downstream/upstream)
- **EQUIPMENT REQUIRED : 3.2-3.8 m Antenna**, Transceiver, Satellite Modem

SHIN





ProTrunk: Simplex



- Simplex service provides only downstream adding inbound capacity to ISP's network
- Using existing request path via terrestrial network (Submarine Fiber or leased circuit)
- EQUIPMENT REQUIRED : 3.2-3.8 m Received Only Antenna, Receiver (EMR2000)







Thank You



