

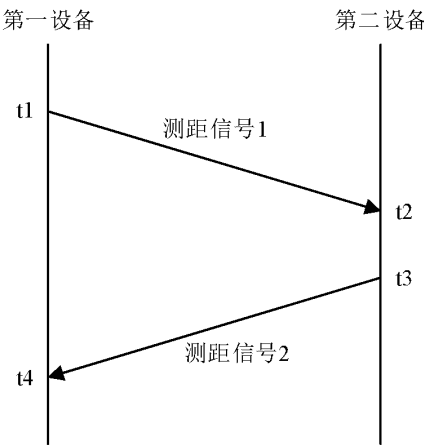


图 1

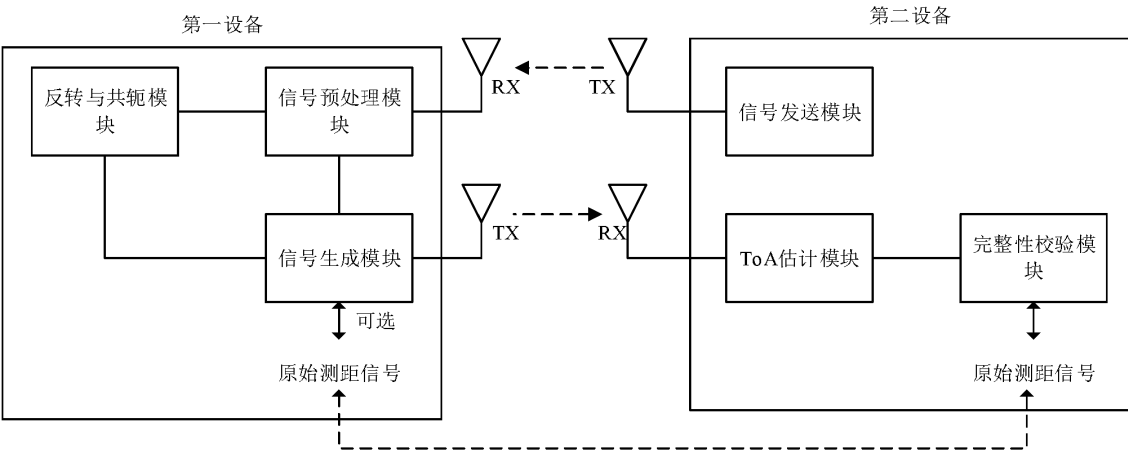


图 2

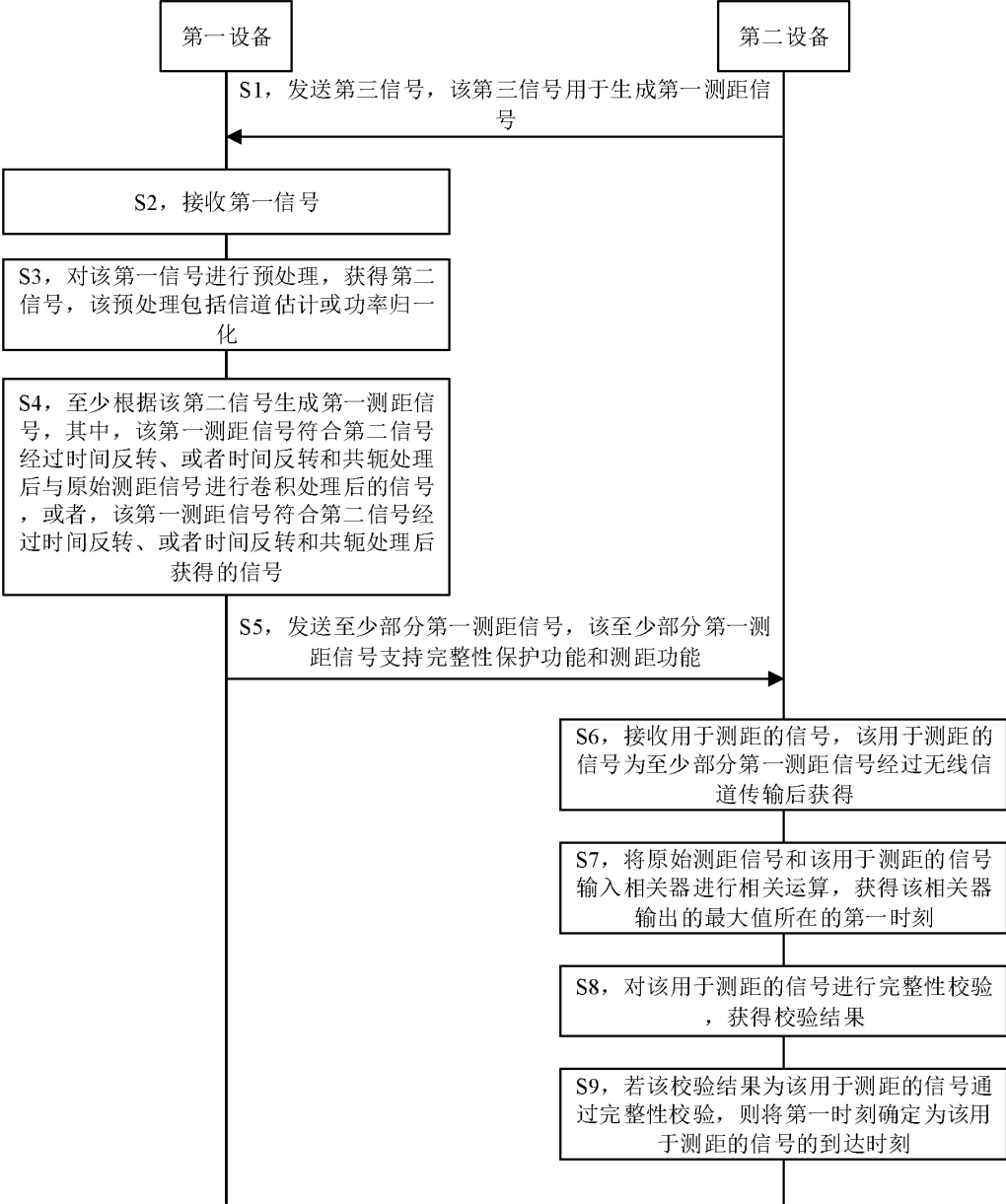


图 3

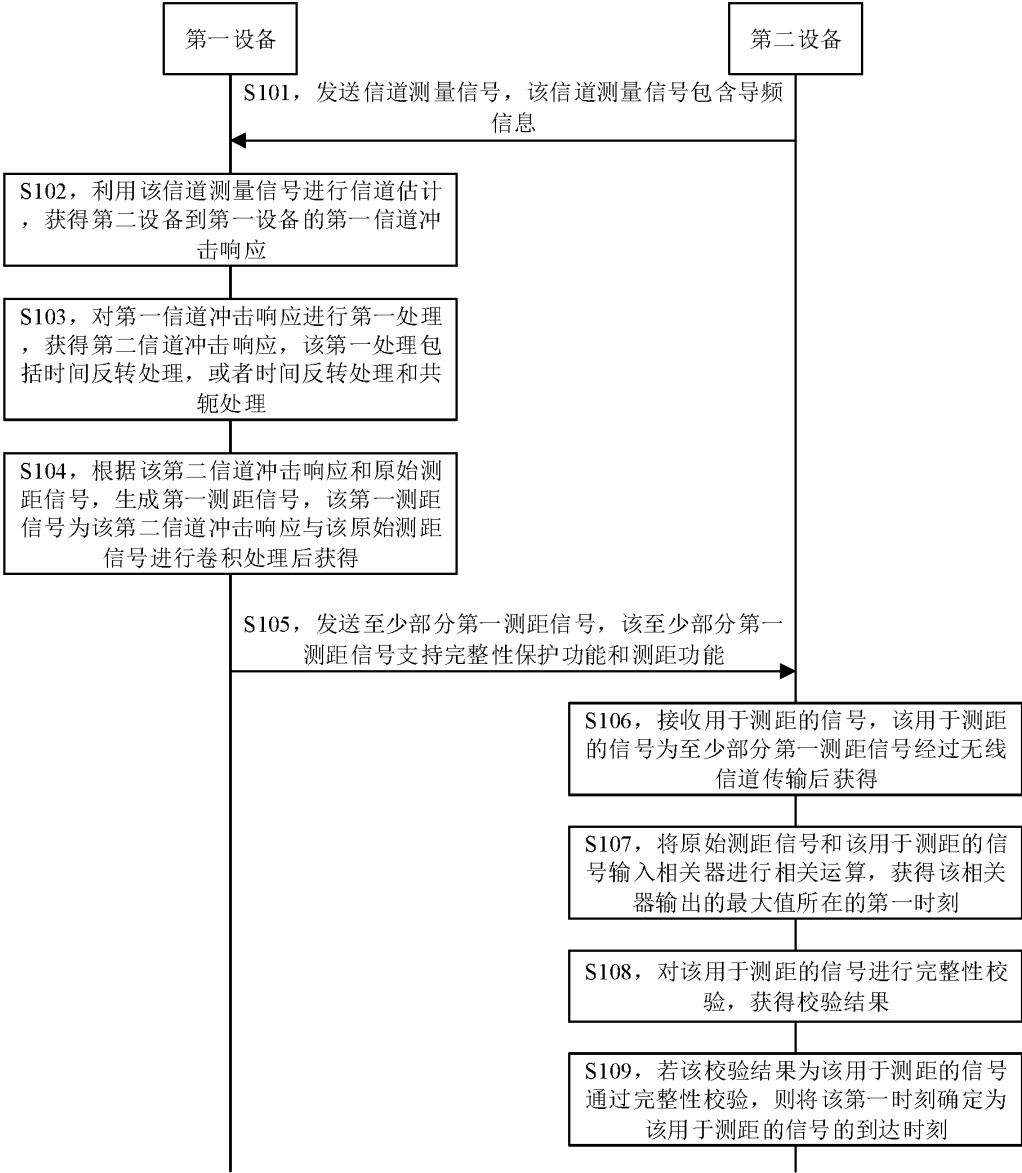
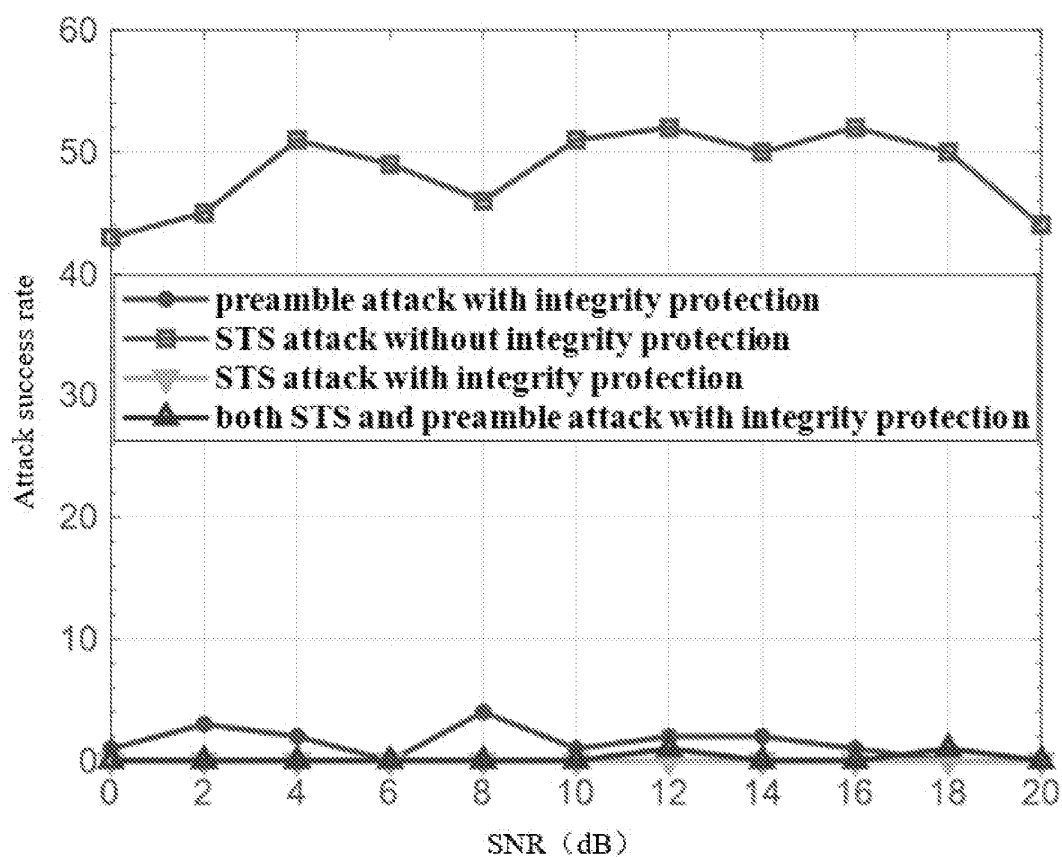


图 4



Attack success rate: 攻击成功率

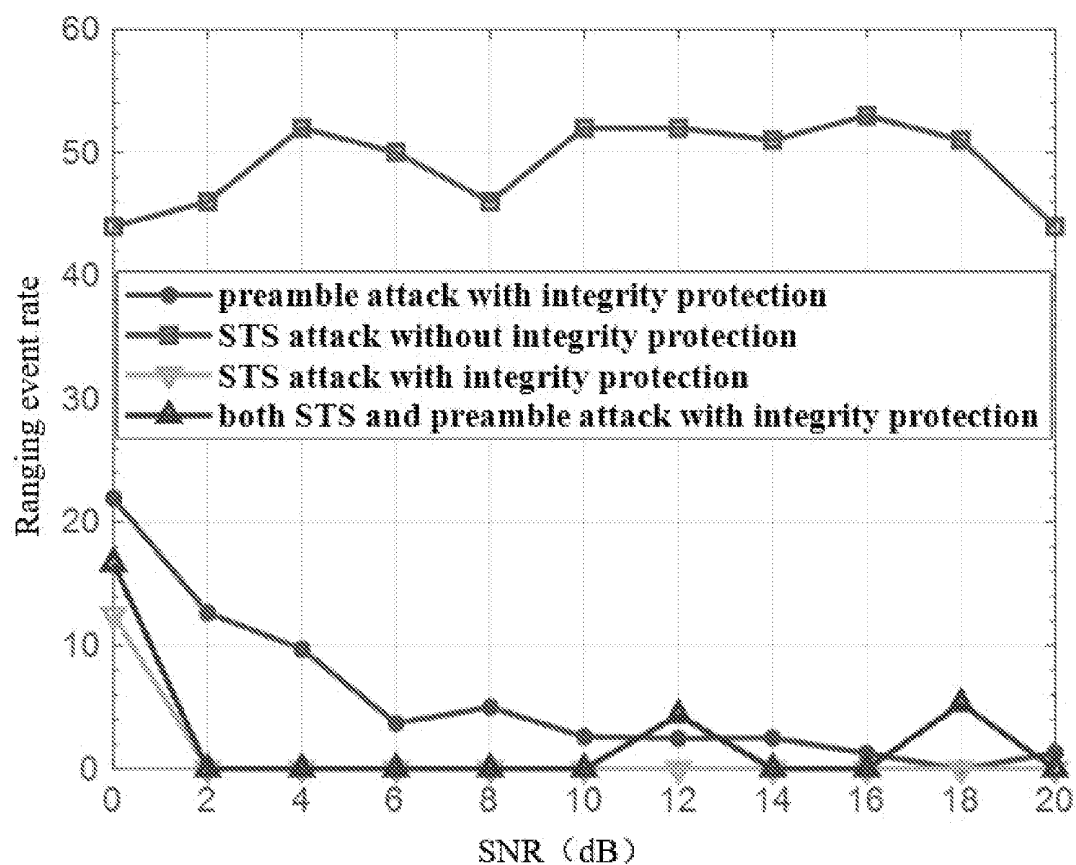
Preamble attack with integrity protection: 具有完整性保护的前导攻击

STS attack without integrity protection: 没有完整性保护的STS攻击

STS attack with integrity protection: 具有完整性保护的STS攻击

Both STS and Preamble attack with integrity protection: 具有完整性保护的STS和前导攻击

图 5a



Ranging error rate: 测距误差率

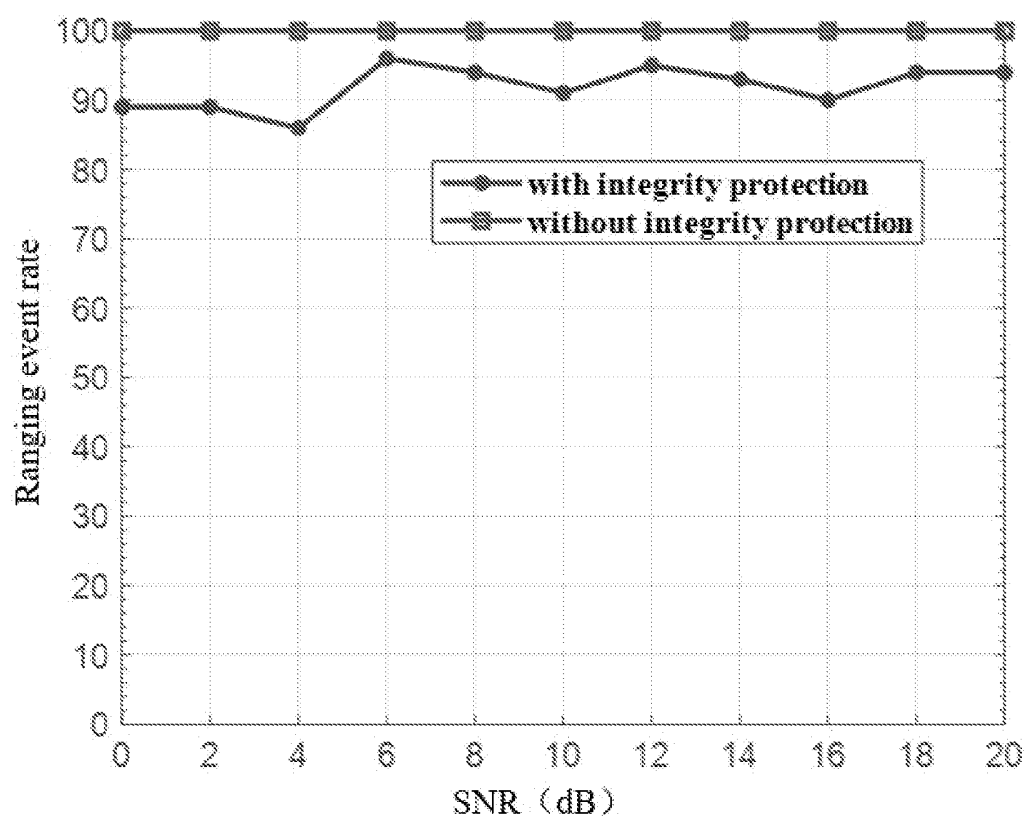
Preamble attack with integrity protection: 具有完整性保护的前导攻击

STS attack without integrity protection: 没有完整性保护的STS攻击

STS attack with integrity protection: 具有完整性保护的STS攻击

Both STS and Preamble attack with integrity protection: 具有完整性保护的STS和前导攻击

图 5b



Ranging error rate: 测距误差率

with integrity protection: 具有完整性保护

without integrity protection: 没有完整性保护

图 5c

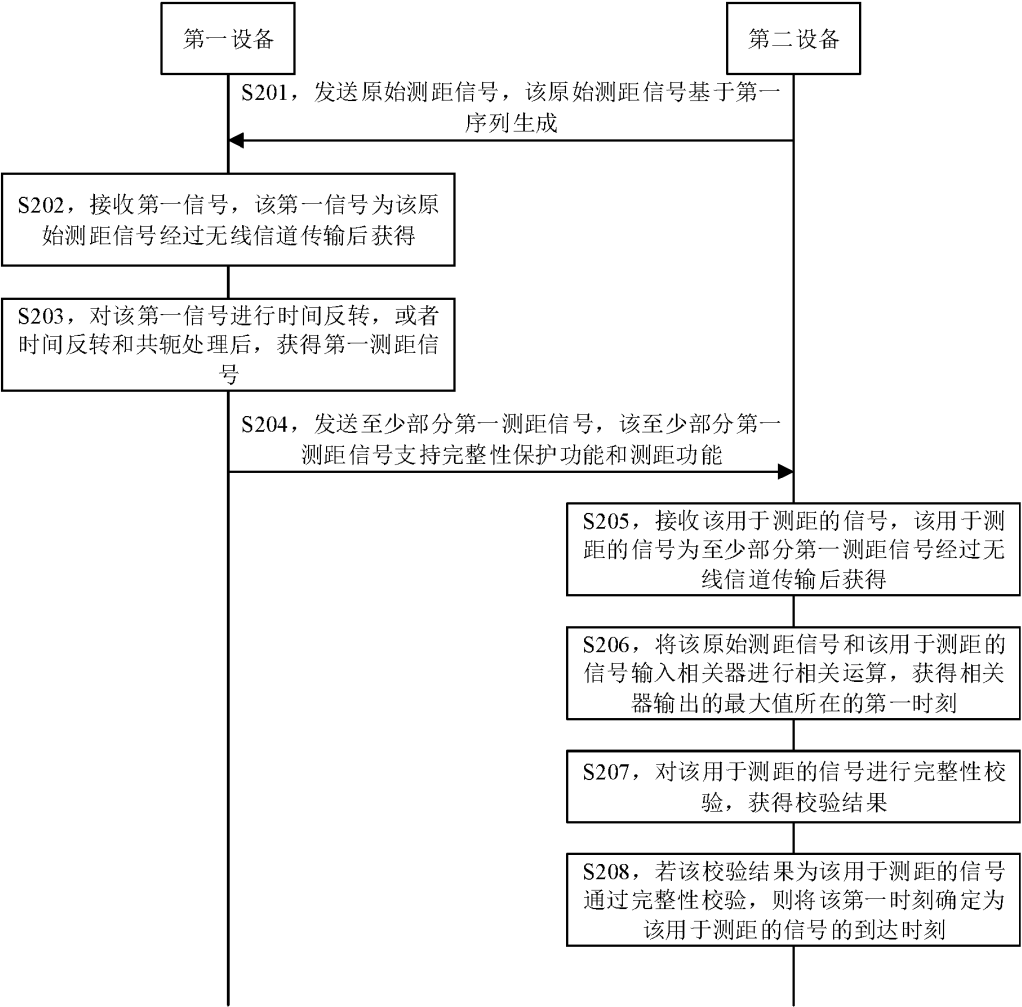


图 6

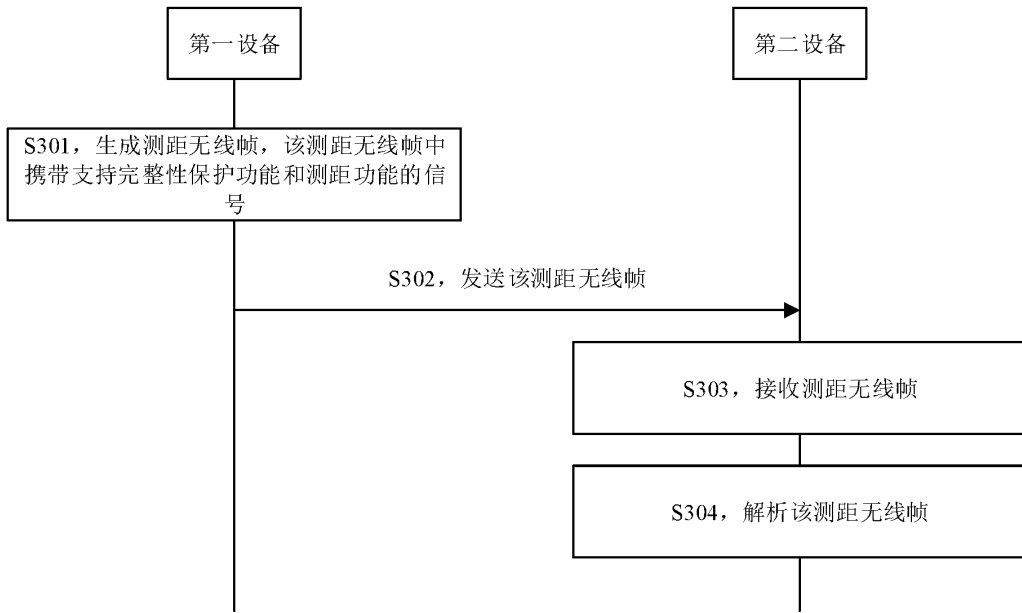


图 7

SYNC 同步	SFD 帧起始定界符	STS+ 支持完整性保护功能和测距功能的信号	PHR 物理层头部	PHY payload 物理层负载
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8a

SYNC 同步	SFD 帧起始定界符	PHR 物理层头部	PHY payload 物理层负载	STS+ 支持完整性保护功能和测距功能的信号
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8b

SYNC 同步	SFD 帧起始定界符	STS+ 支持完整性保护功能和测距功能的信号
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8c

图 8

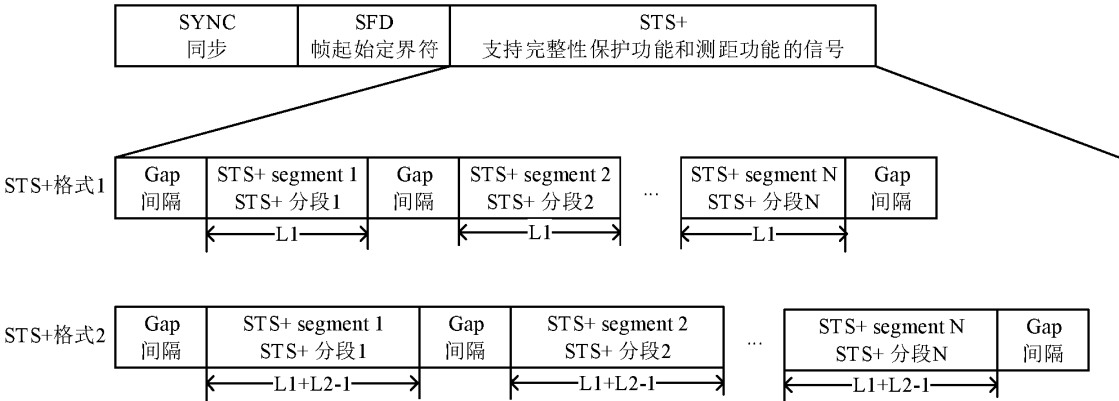


图 9

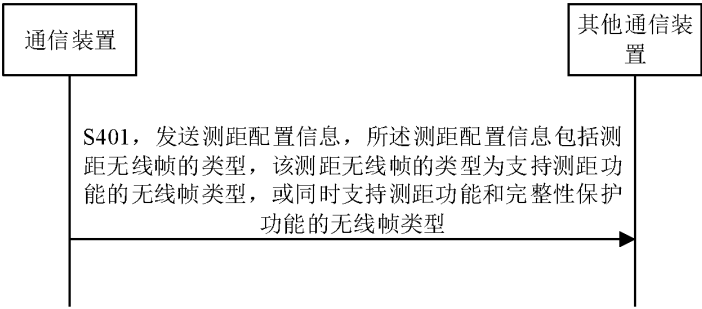


图 10

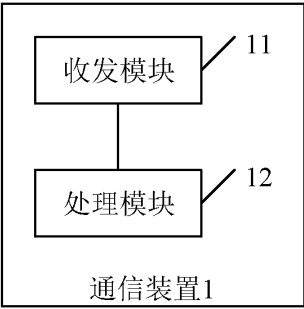


图 11

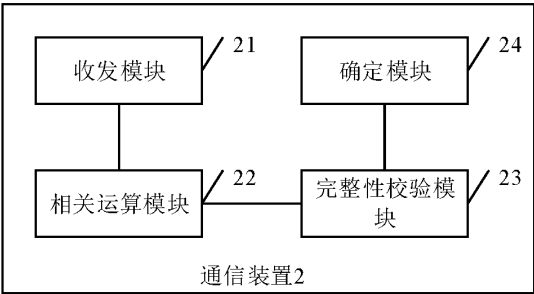


图 12

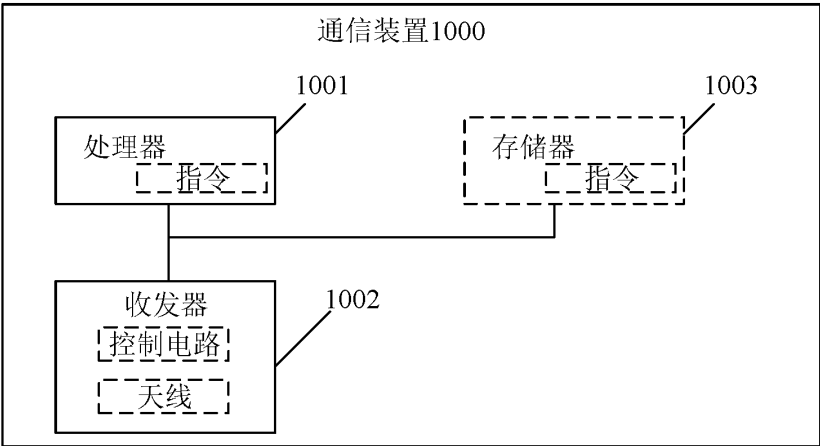


图 13